Tom Karier
Chair
Washington

Frank L. Cassidy Jr.
"Larry"
Washington

Jim Kempton
Idaho

W. Bill Booth
Idaho

Northwest Power and Conservation Council

Joan M. Dukes
Vice-Chair
Oregon

Melinda S. Eden
Oregon

Bruce A. Measure
Montana

Rhonda Whiting
Montana

February 1, 2007

DISCUSSION MEMORANDUM

TO: Council Members

FROM: Peter Paquet, Manager Wildlife and Resident Fish

SUBJECT: Demonstration of Northwest Environmental Data-Network Portal

PURPOSE

The purpose of this demonstration is to familiarize the Council with data portal, an internet based tool, which was developed through the Northwest Environmental Data-Network.

BACKGROUND

The Northwest Environmental Data-Network (NED) is a collaborative effort led by the Northwest Power and Conservation Council (NPCC) and NOAA Fisheries Northwest Regional Office and Fisheries Science Center. The NED Portal meets regional data discovery and sharing needs identified by Scientific Applications International Corporation (SAIC) in their regional data needs assessment. The software chosen for the Portal meets all of SAIC's recommended specifications. The Portal supports and leverages other national, regional, state, and local efforts, including the International Organization for Standardization (ISO), Federal Geographic Data Committee (FGDC), Geospatial One-Stop (GOS), National Spatial Data Infrastructure (NSDI), E-Government initiatives, and state Portal development. The NED Portal integrates existing distributed resources from a wide array of entities, compiling lots of disparate data in one place. Just as there is a hierarchy of data (from national, to regional, to state-level), there are partnership arrangements that must be developed to ensure that the Portals work together.

The NED Portal is an easy to use Internet tool that can:

- Search for data based on user defined geographic boundaries, key words, or full text (like Google).
- Make custom maps by overlaying many different maps from a variety of sources.

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Steve Crow
Executive Director

503-222-5161
800-452-5161
Fax: 503-820-2370

- Discover and download tables of data related to your search (e.g. in Excel).
- Automatically harvest data from other locations.
- Organize information in indexes and inventories so that you can easily find it.
- Accept your existing metadata or use the template to enter it on-line.
- Print, save or email copies of the data or maps that you create or find.
- Allow others to find and use your information.

Why was the Portal Created? An independent regional study in 2003 (SAIC Report) found that many regional researchers, scientists, managers and members of the public can not easily locate the data needed to stay informed and make decisions. The study recommended the creation of a Regional Data Portal based on National and International standards.

Who Manages the Portal? The Northwest Environmental Data Network (NED), a group of Federal, State, Tribal and Non-Governmental entities is responsible for managing the Portal and the pilot installation. The Portal will continue to develop during 2007 and will be continually updated as new data sets become available.

Day to day management of the Portal will be provided by Channel Stewards who will help to organize the content of Portal Channels (for example for Endangered Salmonid data), promote Portal use, assist those wishing to publish to the Portal, and ensure that published information meets Portal standards.

Who Can Use the Portal? Anyone who has access to the Internet can get information from the Portal and any information published to the Internet through a standard format can be harvested by the Portal. Anyone wanting to publish their metadata can create a new account.

What Technology Makes the Portal Work? It is based on off-the-shelf technology, the Portal Toolkit from ESRI. This technology is also used by the National Geodata.gov Portal. The NED Portal will provide data to the National Portal. The benefit of a regional portal is twofold: the region can decide what data is important to it and focus on developing data resources that are not necessarily of national interest, and regional Channel Stewards can help to refine data quality to meet regional requirements, a necessary service that National Portals do not provide.

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Finding, Sharing and Using Distributed Data -- Northwest Environmental Data-Network Portal Development

NW Power and Conservation Council

February 13, 2007

Background

There is agreement that we all need a better way to find and use fish, wildlife, and water data. NED is a collaborative effort led by the Northwest Power and Conservation Council and NOAA Fisheries. The NED Portal has been deployed at a pilot level to support regional data discovery and sharing needs identified by Scientific Applications International Corporation in their regional data needs assessment. The Portal supports and leverages other national, regional, state, and local efforts by integrating existing distributed resources in one place.

What the Portal is and what it can do [http://nppc.bpa.gov/Portal]

- Discover distributed data (i.e., from different web sites) by doing searches based on geographic boundaries, key words, or a known location picked from a standard list. The search is performed on the metadata records attached to each data set. Metadata is analogous to the card catalog at the library which describes the holdings.
- Share data (tabular or spatial) by posting its metadata to the Internet in industry standard format.
- Look at the data, in spatial (or map) form.
- Overlay different data sets in map form.
- Print, save and recover, or email a copy of data or a map you create.
- Discover and download tabular data for local use.
- Index and organize tabular data, spatial data, and other electronic products such as publications.
- Provide a current inventory of all data published in the standard format.

Features of the NED Portal

- Cost effective. Builds upon and ties together comparable national and state-level efforts.
- Metadata records can be uploaded, automatically harvested, or input via the Portal's template.
- Compliant with National and International standards, including those of the ISO, NSDI and FGDC.
- Based on off-the-shelf technology, ESRI's Portal Toolkit. This also runs the nation's Portal at http://www.geodata.gov
- Meets regional needs for access to Pacific Northwest natural resource policy, planning, and management data.
- A single source for locating and discovering data.

What it will take for the Portal to Succeed

- Identifying a Portal Administrator and Channel Steward. The Administrator will make sure that the Portal continues to run. The Steward will work with data providers to get data posted to the system that complies with agreed standards for metadata and has certified data quality.
- Posting of data. Agencies and entities completing work must post their metadata to the Internet before the Portal can find it. Data can also be posted for easy access. A web map service (or other standard web-accessible service) allows easy overlay of these data.
- Agencies or entities that cannot post data may need help posting (and/or hosting) their metadata and/or actual data sets.

What it is likely to cost to populate and maintain the Portal

- Infrastructure and staff. A Portal Administrator and Channel Steward are needed in a full time capacity. Depending on the amount of use, more data content stewards could be needed for specific subjects.
- Fiscal Year 2007 budget needs will continue to be developed by the NED Steering Committee and covered under the Council's Fish and Wildlife Program. Out year budget is proposed to be included in a new BPA/Council Regional Data Management Planning and Coordination item. This is consistent with Independent Scientific Review Panel guidance to make scientifically credible data available for fish and wildlife planning and management activities.

Policy Commitment

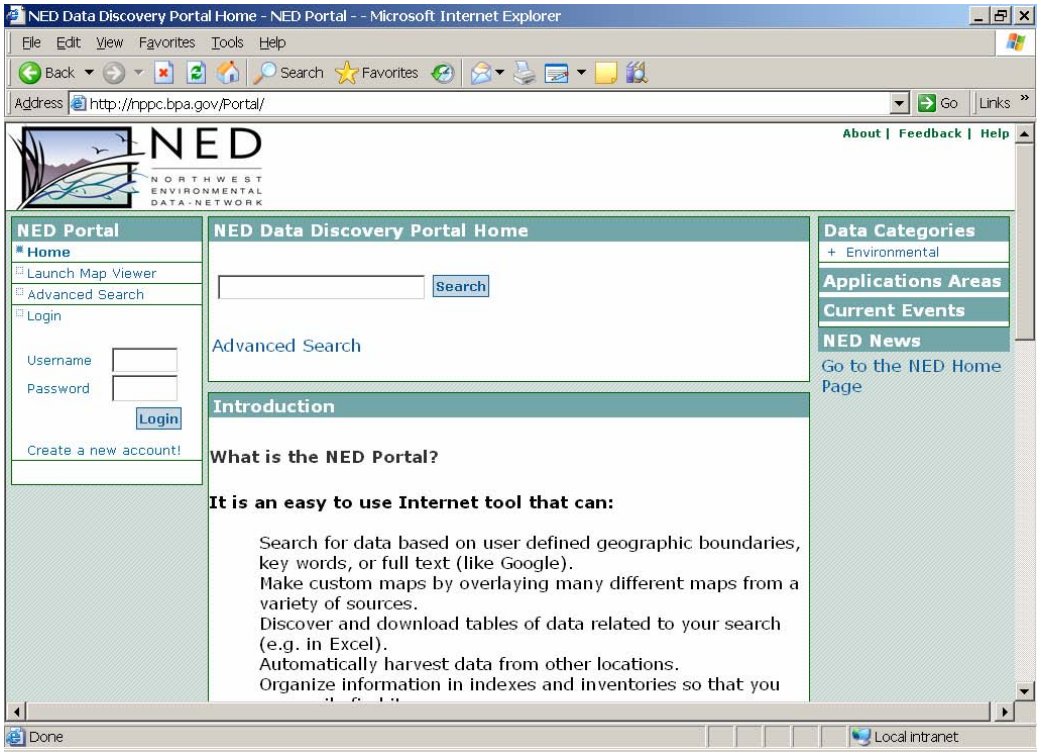
The system will work if metadata are posted to the Portal, raw data are available on the Internet, and the quality of the data is assured. Regional Executives will be asked to support the common use of basic standards and protocols for data quality and metadata across their regional programs. Similar requirements are already in place for many agencies, and need to be implemented throughout the region.

Conclusion

The Portal is a technology evolution, not a revolution. It can make regional data sets discoverable and available in their native formats once their metadata is posted. The Portal will allow anyone to discover and use the data that are available to help solve natural resource problems. There is an opportunity to tap into national assistance at Geospatial One-Stop to further develop both the technology and people partnerships that will be necessary for NED to succeed. The Portal supports an adaptive management approach to regional information system development.

Tom Pansky, Energy Resource Specialist, Bonneville Power Administration
Portland, Oregon, tepansky@bpa.gov, 503.230.3969
NED Technology for Data Discovery and Sharing Work Group

http://www.nwcouncil.org/ned http://nppc.bpa.gov/Portal



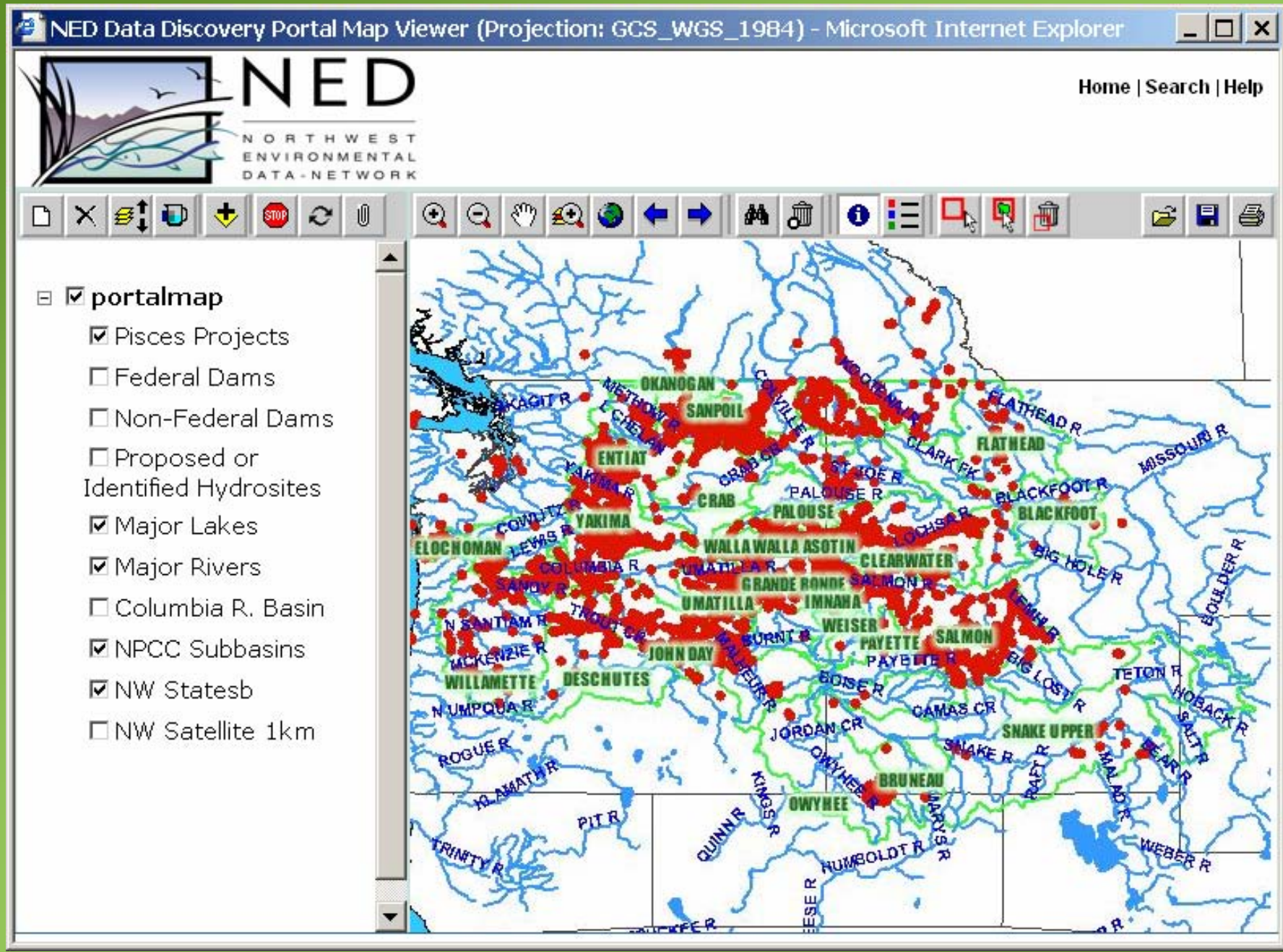
NORTHWEST
ENVIRONMENTAL
DATA-NETWORK

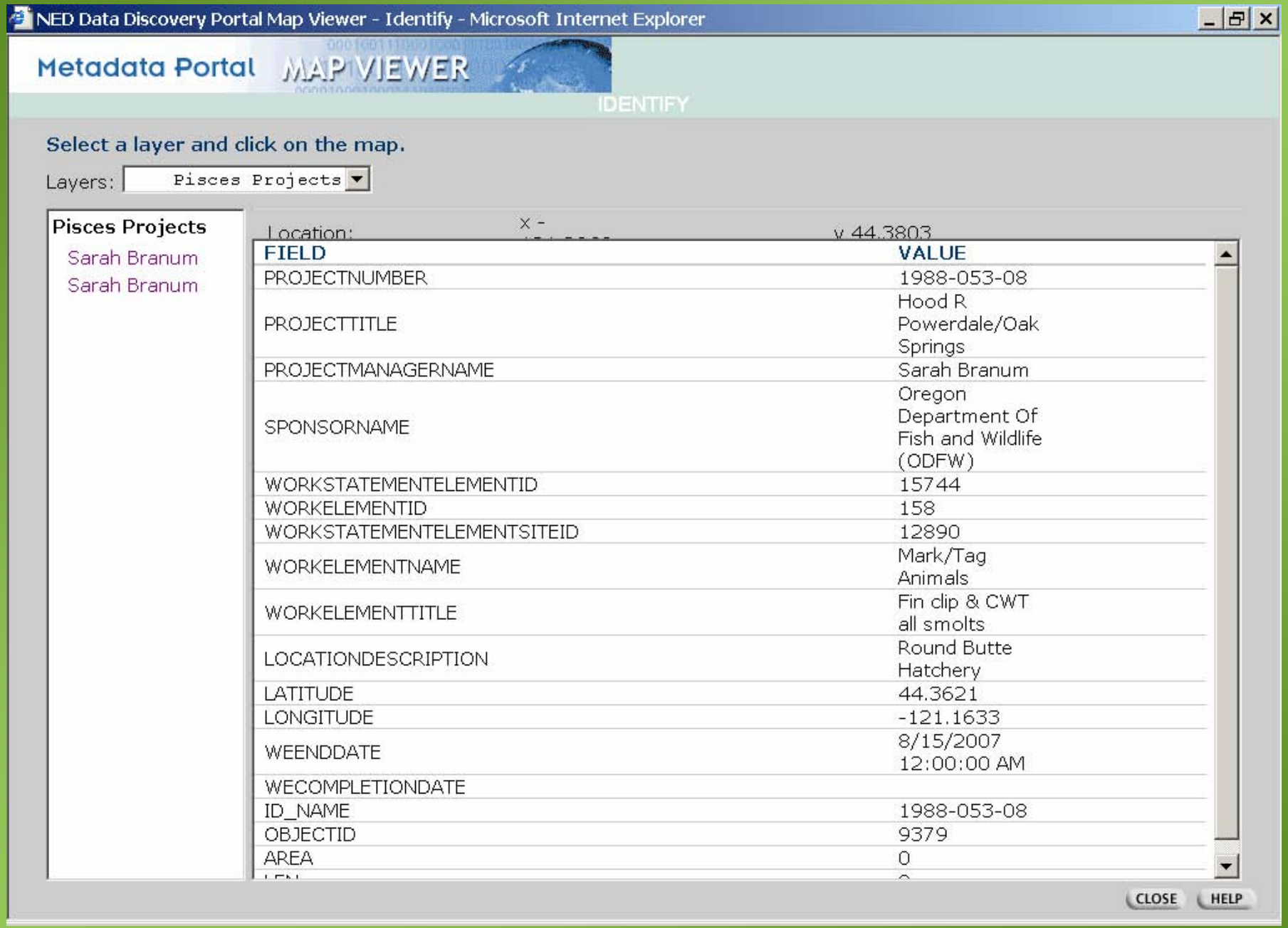
Portal Demonstration

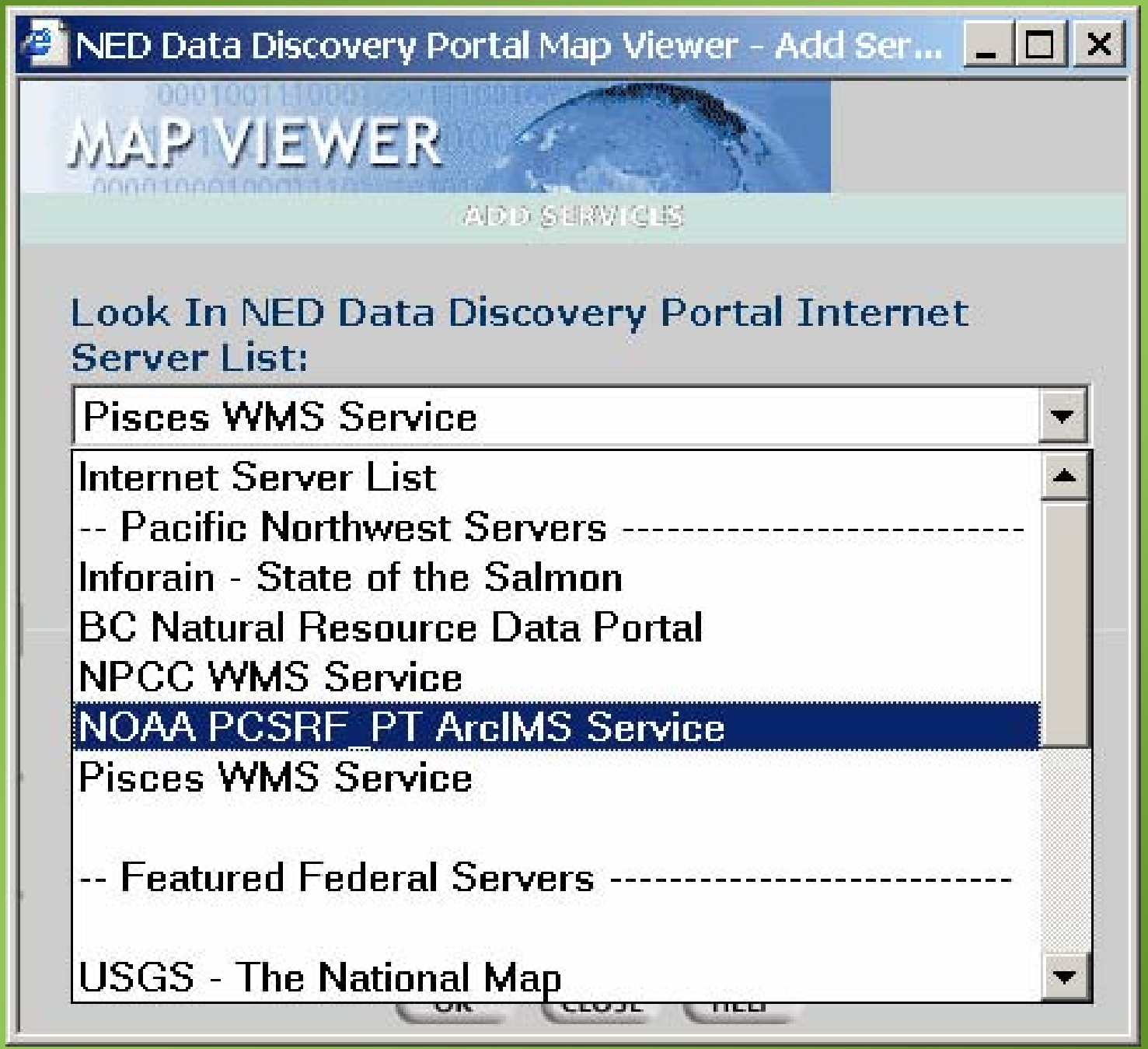
February 13 2007
Northwest Power and Conservation Council

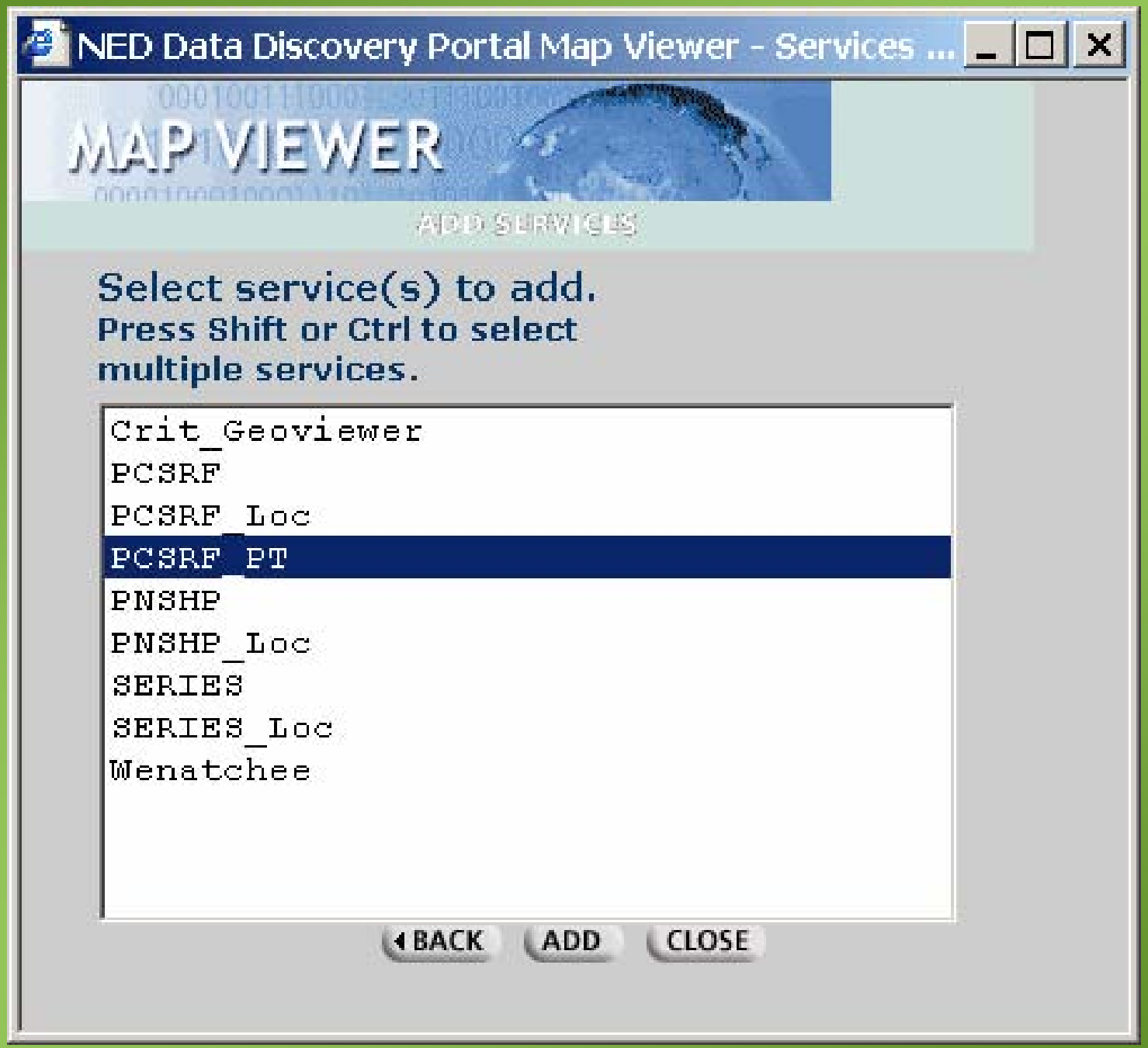
Tom Pansky, Energy Resource Specialist, BPA

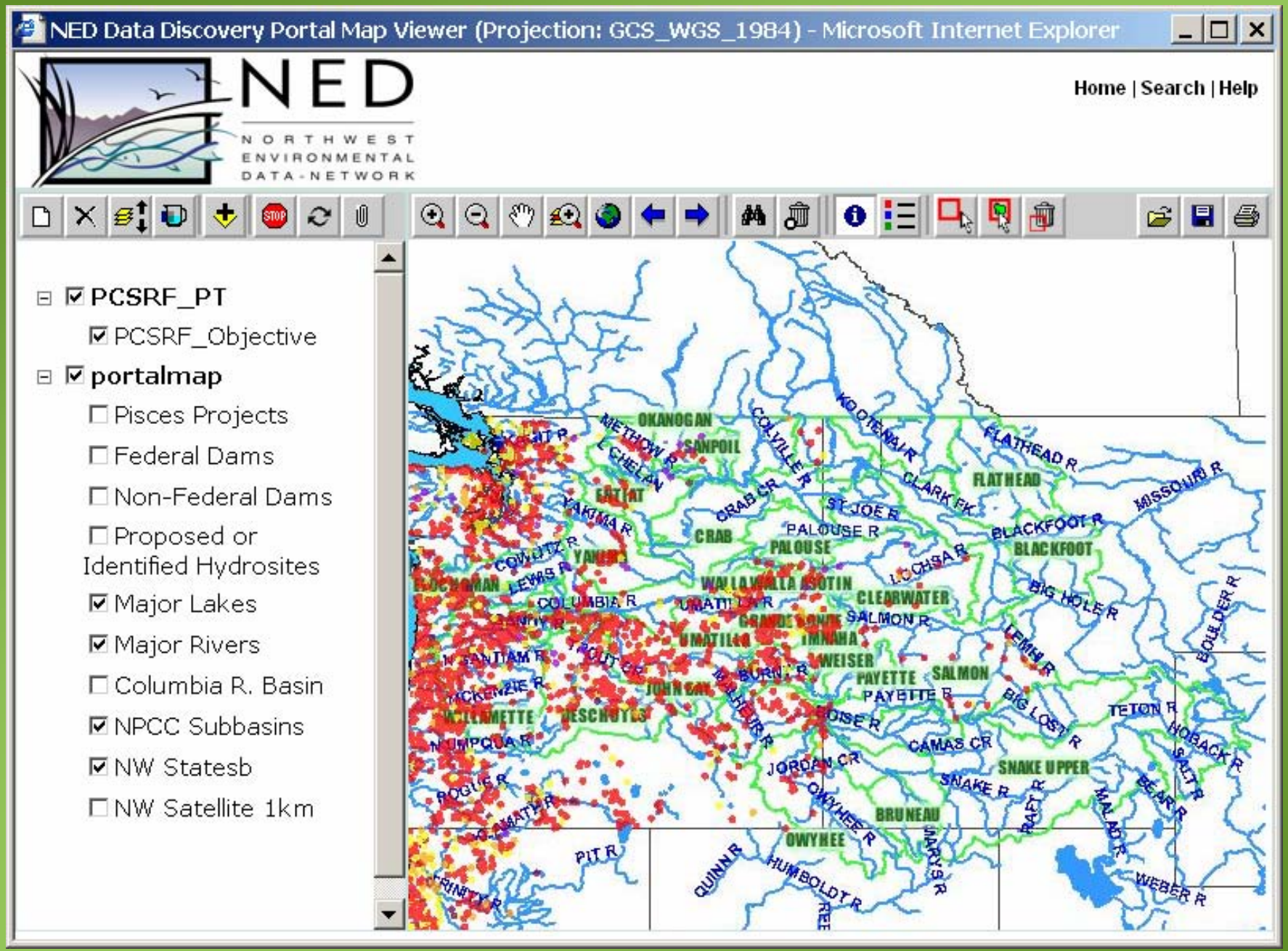
NED Technology for Data Discovery and Sharing Work Group

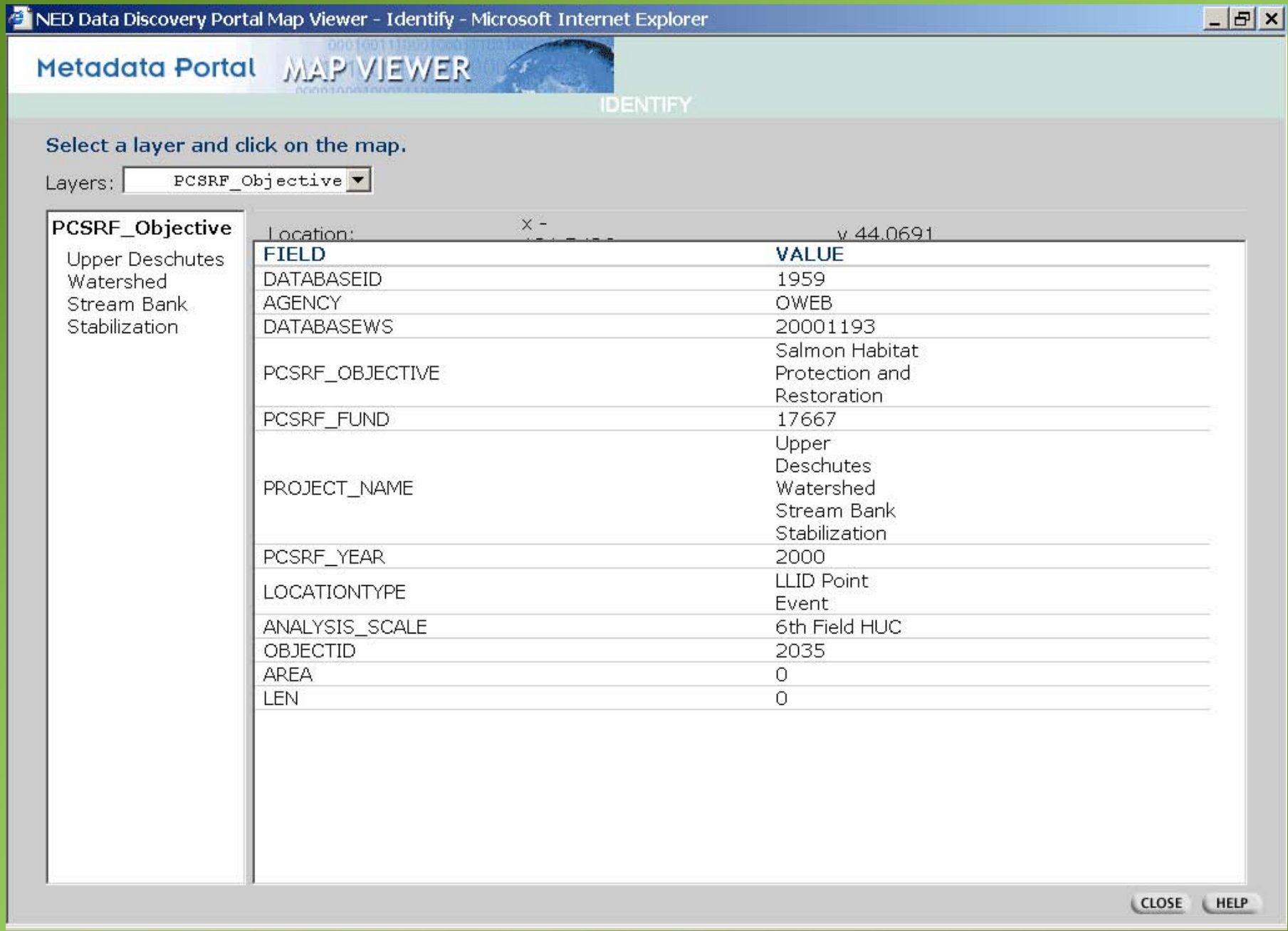

NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
Major Lakes
Major Rivers
Columbia R. Basin
NPCC Subbasins
NW Statesb
NW Satellite 1km
OKANOGAN
SANPOIL
ENTIAT
CRAB
YAKIMA
ELOCHOMAN
WALLA WALLA
ASOTIN
CLEARWATER
GRANDE RONDE
UMATILLA
IMNAHA
WEISER
PAYETTE
SALMON
JOHN DAY
DESCHUTES
WILLAMETTE
BRUNEAU
OWYHEE
SNAKE UPPER
FLATHEAD
BLACKFOOT
PALOUSE
COLUMBIA R
SANDY R
N SANTIAM R
MCKENZIE R
N UMPQUA R
ROGUE R
KLAMATH R
PIT R
TRINITY R
QUINN R
KINGS R
HUMBOLDT R
MARYS R
OWYHEE R
JORDAN CR
BOISE R
CAMAS CR
SNAKE R
RAFT R
MALAD R
BEAR R
SALT R
NOBACK R
TETON R
BIG LOST R
BIG HOLE R
BOULDER R
MISSOURI R
FLATHEAD R
CLARK FK
BLACKFOOT R
LOCHSA R
PALOUSE R
ST JOE R
COLVILLE R
CRAB CR
YAKIMA R
COWLITZ R
LEWIS R
TROUT CR
BURNT R
MALHEUR R
PAYETTE R
LEMHI R
WEBER R


NED Data Discovery Portal Map Viewer - Identify - Microsoft Internet Explorer
Metadata Portal
MAP VIEWER
IDENTIFY
Select a layer and click on the map.
Layers: Pisces Projects
Pisces Projects
Sarah Branum
Sarah Branum
Location:
y 44.3803
FIELD
VALUE
PROJECTNUMBER
1988-053-08
PROJECTTITLE
Hood R Powerdale/Oak Springs
PROJECTMANAGERNAME
Sarah Branum
SPONSORNAME
Oregon Department Of Fish and Wildlife (ODFW)
WORKSTATEMENTELEMENTID
15744
WORKELEMENTID
158
WORKSTATEMENTELEMENTSITEID
12890
WORKELEMENTNAME
Mark/Tag Animals
WORKELEMENTTITLE
Fin clip & CWT all smolts
LOCATIONDESCRIPTION
Round Butte Hatchery
LATITUDE
44.3621
LONGITUDE
-121.1633
WEENDDATE
8/15/2007 12:00:00 AM
WECOMPLETIONDATE
ID_NAME
1988-053-08
OBJECTID
9379
AREA
0
CLOSE
HELP


NED Data Discovery Portal Map Viewer - Add Ser...
MAP VIEWER
ADD SERVICES
Look In NED Data Discovery Portal Internet Server List:
Pisces WMS Service
Internet Server List
-- Pacific Northwest Servers ----------
Inforain - State of the Salmon
BC Natural Resource Data Portal
NPCC WMS Service
NOAA PCSRF_PT ArcIMS Service
Pisces WMS Service
-- Featured Federal Servers ----------
USGS - The National Map


NED Data Discovery Portal Map Viewer - Services ...
MAP VIEWER
ADD SERVICES
Select service(s) to add.
Press Shift or Ctrl to select multiple services.
Crit_Geoviewer
PCSRF
PCSRF_Loc
PCSRF_PT
PNSHP
PNSHP_Loc
SERIES
SERIES_Loc
Wenatchee
BACK
ADD
CLOSE


NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
PCSRF_PT
PCSRF_Objective
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
Major Lakes
Major Rivers
Columbia R. Basin
NPCC Subbasins
NW Statesb
NW Satellite 1km
OKANOGAN
SANPOIL
METHOW R
L CHELAN
COLVILLE R
KOOTENAI R
FLATHEAD R
FLATHEAD
CLARK FK
MISSOURI R
ENTIAT
YAKIMA R
CRAB CR
ST JOE R
CRAB
PALOUSE R
PALOUSE
BLACKFOOT R
BLACKFOOT
COWLITZ R
YAKIMA
LEWIS R
LOCHSA R
WALLA WALLA
ASOTIN
CLEARWATER
BIG HOLE R
COLUMBIA R
UMATILLA R
SALMON R
UMATILLA
IMNAHA
LEMHI R
BOULDER R
WEISER
PAYETTE
SALMON
PAYETTE R
BIG LOST R
TETON R
JOHN DAY
BOISE R
CAMAS CR
NOBACK R
SALT R
SNAKE UPPER
JORDAN CR
SNAKE R
BEAR R
OWYHEE R
BRUNEAU
OWYHEE
PIT R
QUINN R
HUMBOLDT R
MARYS R
WEBER R


NED Data Discovery Portal Map Viewer - Identify - Microsoft Internet Explorer
Metadata Portal
MAP VIEWER
IDENTIFY
Select a layer and click on the map.
Layers: PCSRF_Objective
PCSRF_Objective
Upper Deschutes Watershed Stream Bank Stabilization
Location:
y 44.0691
FIELD
VALUE
DATABASEID
1959
AGENCY
OWEB
DATABASEWS
20001193
PCSRF_OBJECTIVE
Salmon Habitat Protection and Restoration
PCSRF_FUND
17667
PROJECT_NAME
Upper Deschutes Watershed Stream Bank Stabilization
PCSRF_YEAR
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LOCATIONTYPE
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ANALYSIS_SCALE
6th Field HUC
OBJECTID
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AREA
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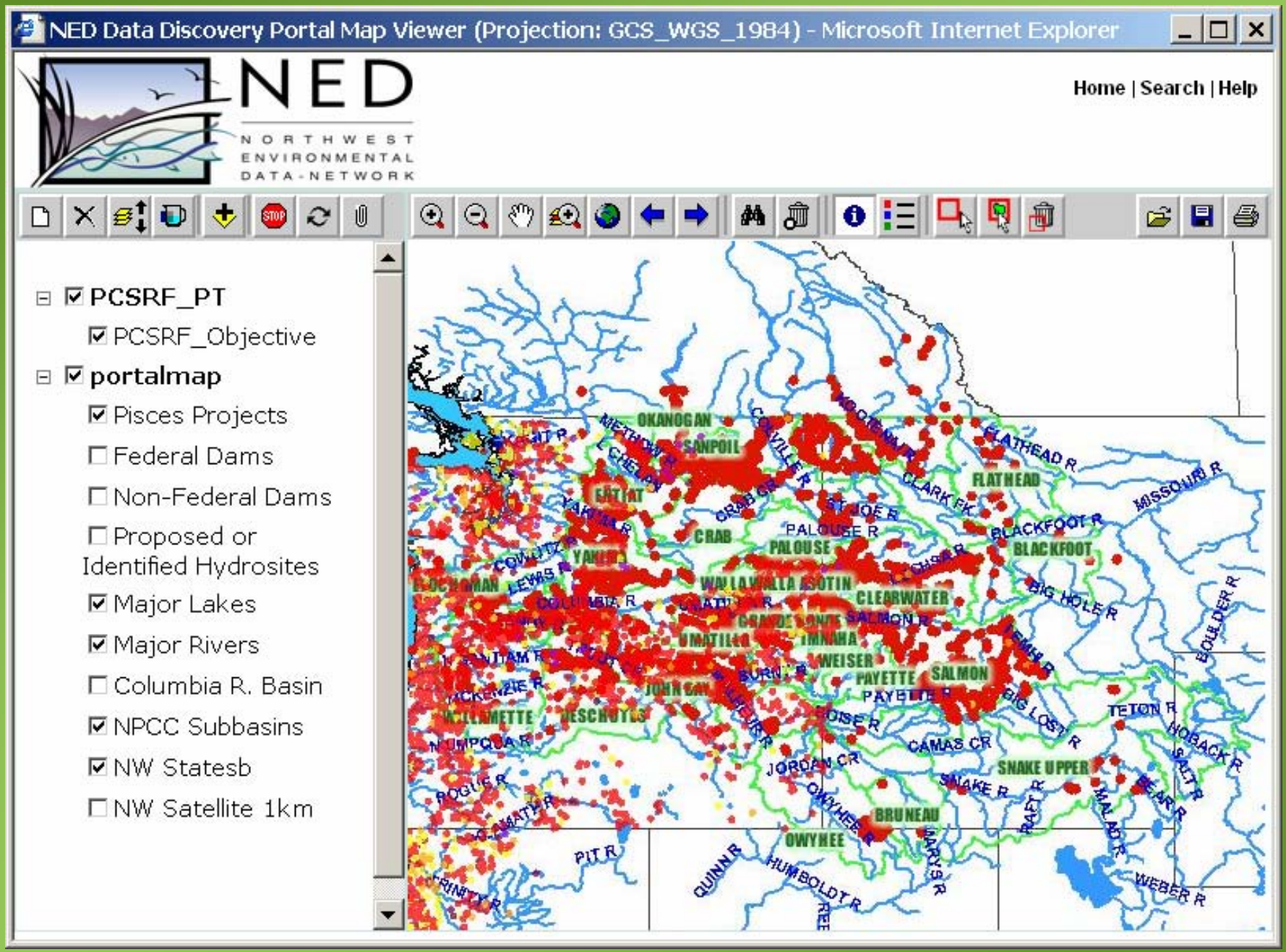
LEN
0
CLOSE
HELP


NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
PCSRF_PT
PCSRF_Objective
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
Major Lakes
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NW Satellite 1km
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WEISER
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SALMON
JOHN DAY
DESCHUTES
WILLAMETTE
SNAKE UPPER
BRUNEAU
OWYHEE
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MISSOURI R
BLACKFOOT R
BIG HOLE R
BOULDER R
TETON R
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TEMHI R
BURNT R
MARYS R
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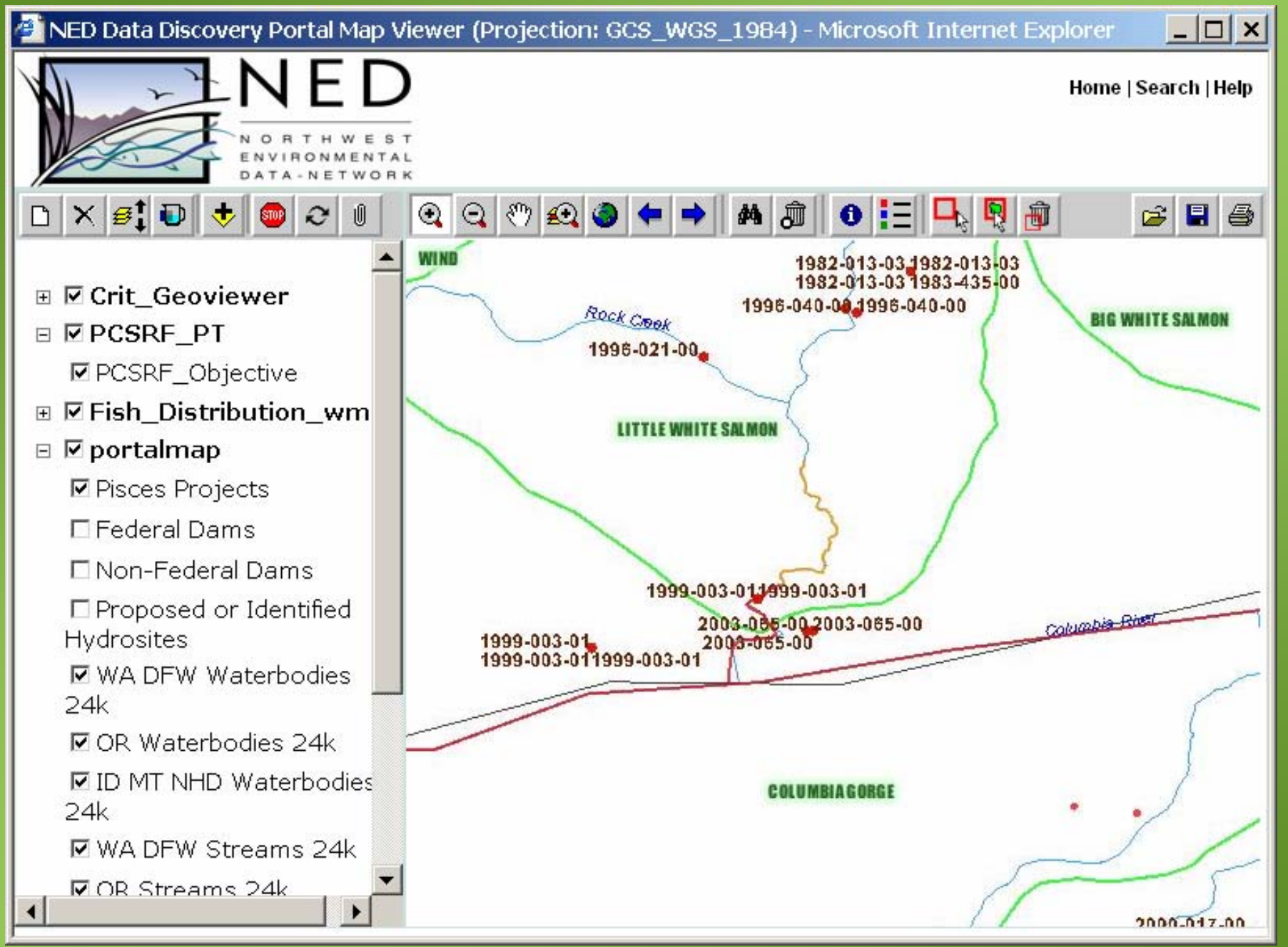
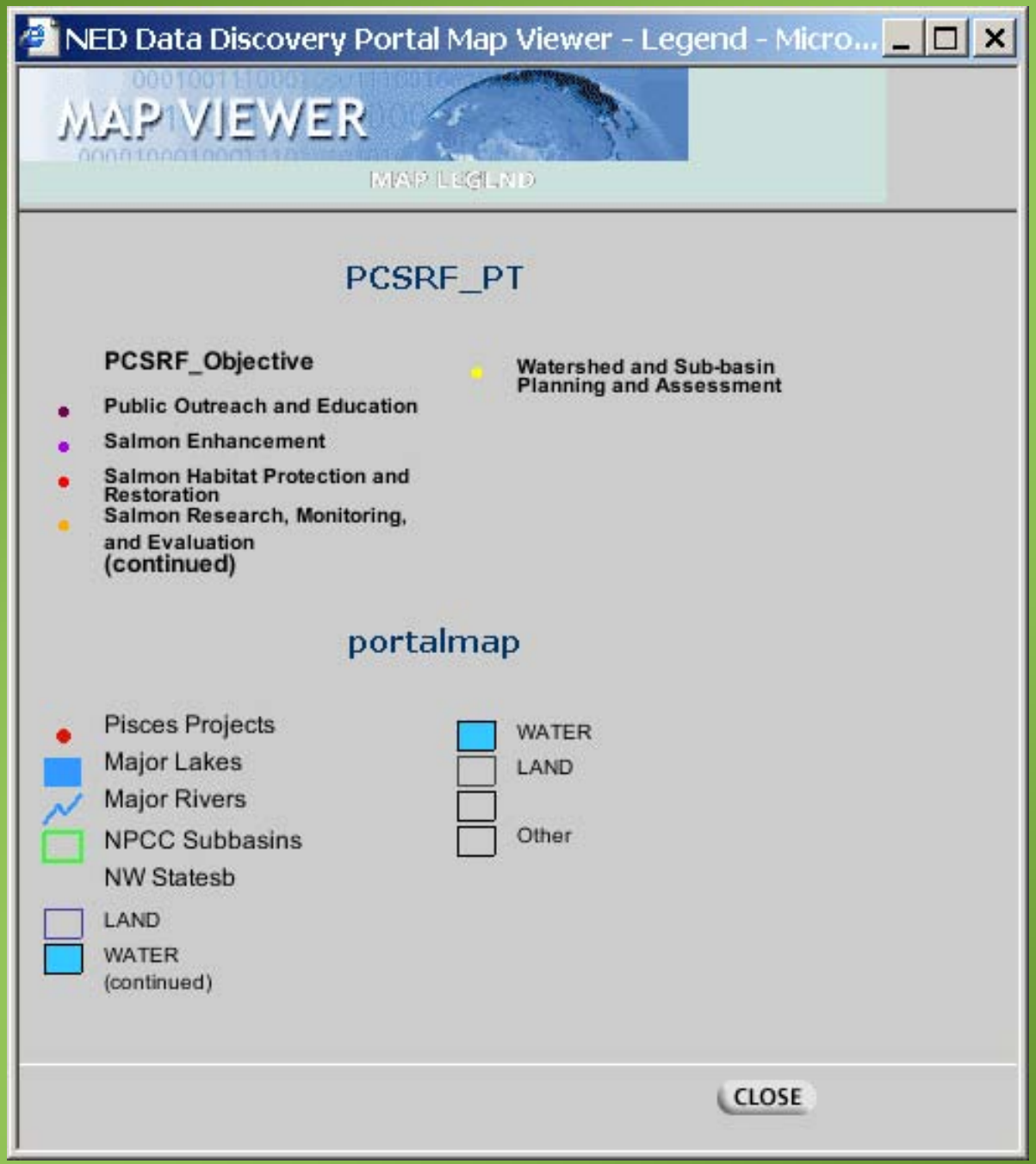
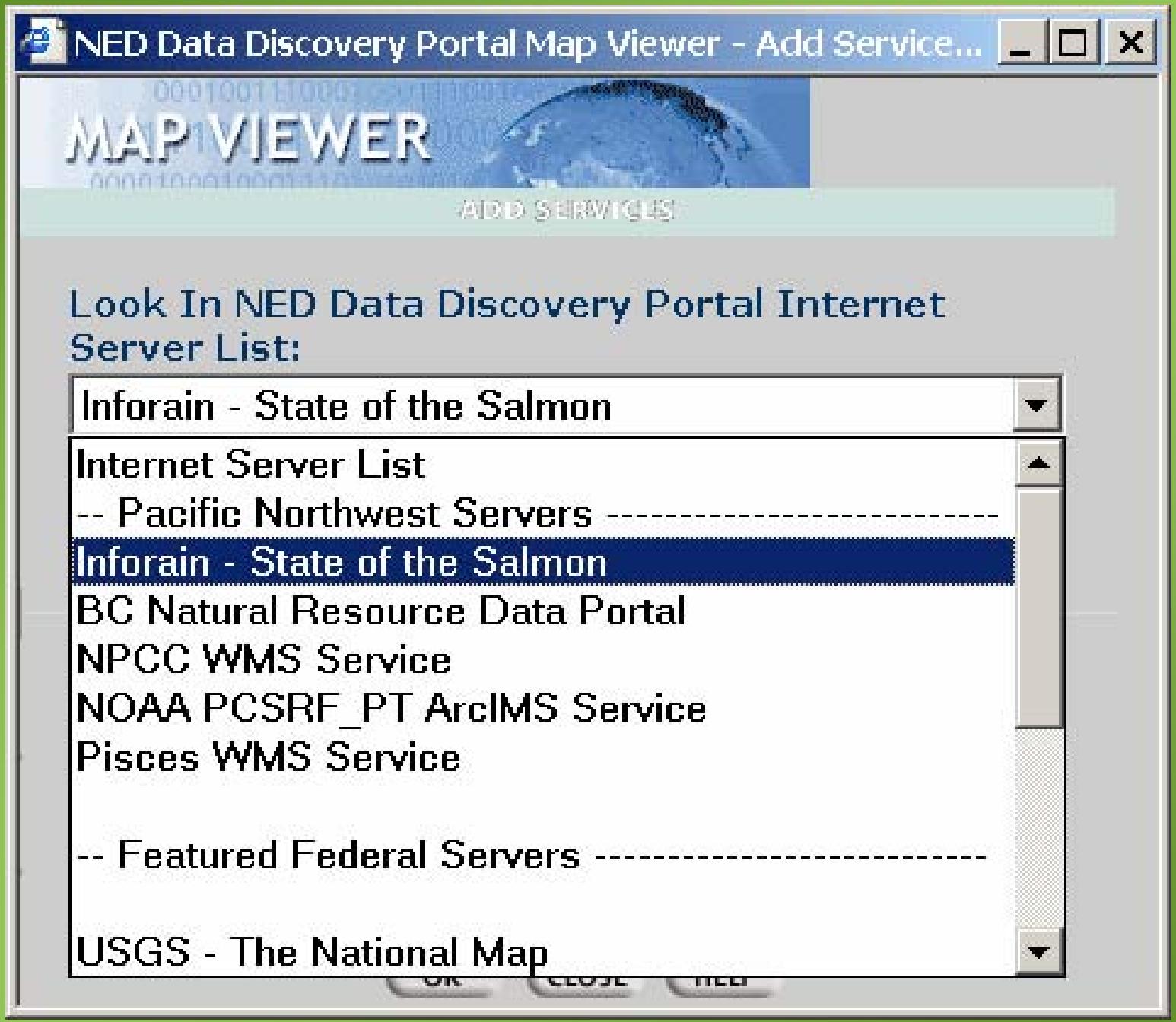
QUINN R
PIT R
ROGUE R
NUMPQUA R
TRINITY R


NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
Crit_Geoviewer
PCSRF_PT
PCSRF_Objective
Fish_Distribution_wm
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
WA DFW Waterbodies 24k
OR Waterbodies 24k
ID MT NHD Waterbodies 24k
WA DFW Streams 24k
OR Streams 24k
WIND
Rock Cook
1996-021-00
LITTLE WHITE SALMON
BIG WHITE SALMON
1982-013-03 1982-013-03
1982-013-03 1983-435-00
1996-040-00 1996-040-00
1999-003-01 1999-003-01
2003-065-00 2003-065-00
2003-065-00
1999-003-01
1999-003-01 1999-003-01
Columbia River
COLUMBIA GORGE


NED Data Discovery Portal Map Viewer - Legend - Micro...
MAP VIEWER
MAP LEGEND
PCSRF_PT
PCSRF_Objective
Public Outreach and Education
Salmon Enhancement
Salmon Habitat Protection and Restoration
Salmon Research, Monitoring, and Evaluation
(continued)
Watershed and Sub-basin Planning and Assessment
portalmap
Pisces Projects
Major Lakes
Major Rivers
NPCC Subbasins
NW Statesb
LAND
WATER
(continued)
WATER
LAND
Other
CLOSE


NED Data Discovery Portal Map Viewer - Add Service...
MAP VIEWER
ADD SERVICES
Look In NED Data Discovery Portal Internet Server List:
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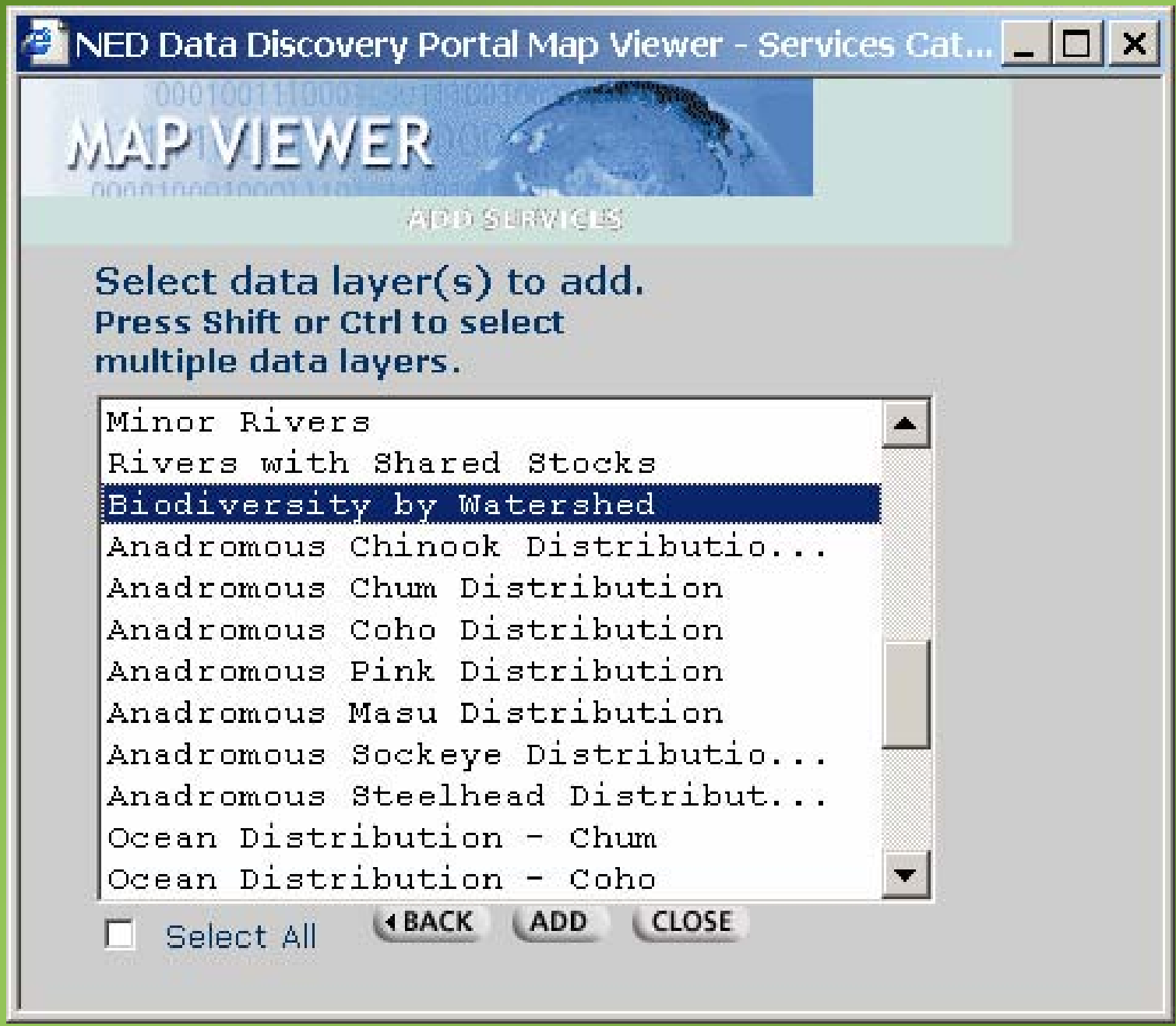
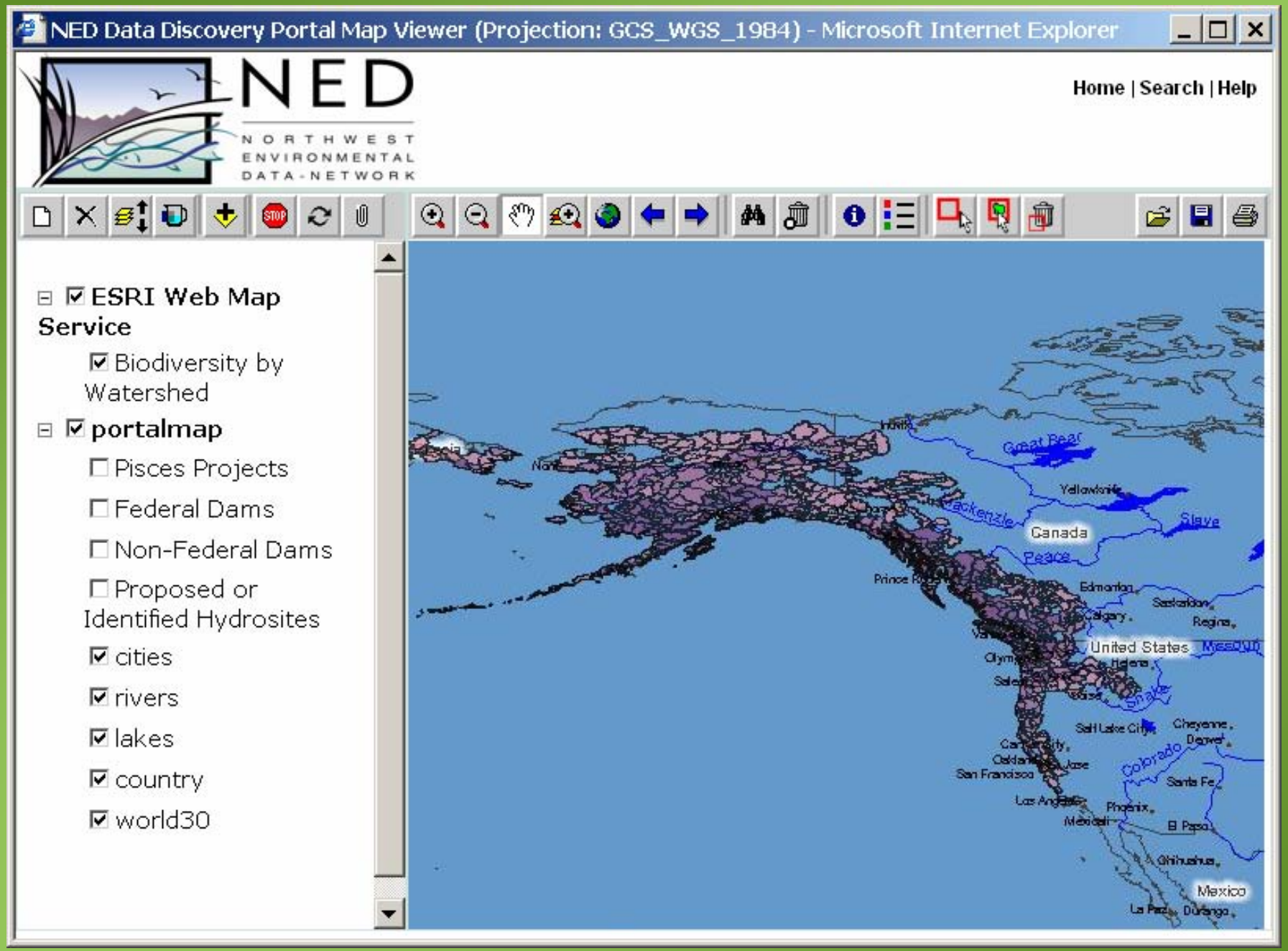
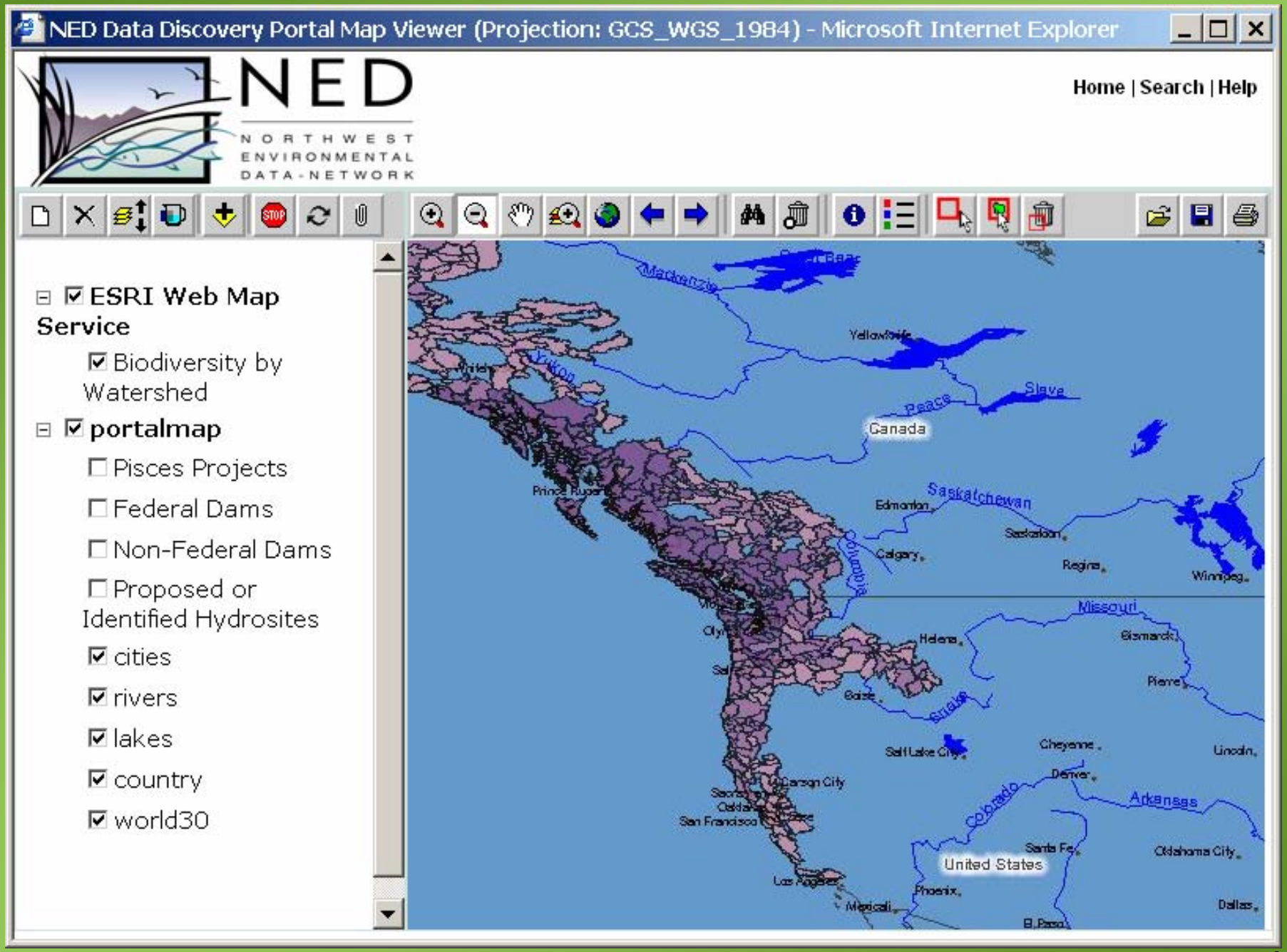
NPCC WMS Service
NOAA PCSRF_PT ArcIMS Service
Pisces WMS Service
-- Featured Federal Servers ----------
USGS - The National Map


NED Data Discovery Portal Map Viewer - Services Cat...
MAP VIEWER
ADD SERVICES
Select data layer(s) to add.
Press Shift or Ctrl to select
multiple data layers.
Minor Rivers
Rivers with Shared Stocks
Biodiversity by Watershed
Anadromous Chinook Distributio...
Anadromous Chum Distribution
Anadromous Coho Distribution
Anadromous Pink Distribution
Anadromous Masu Distribution
Anadromous Sockeye Distributio...
Anadromous Steelhead Distribut...
Ocean Distribution - Chum
Ocean Distribution - Coho
Select All
BACK
ADD
CLOSE


NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
ESRI Web Map Service
Biodiversity by Watershed
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
cities
rivers
lakes
country
world30
Great Bear
Mackenzie
Canada
Slave
Peace
Edmonton
Calgary
Saskatoon
Regina
United States
Missouri
Snake
Salt Lake City
Cheyenne
Denver
Colorado
San Francisco
Santa Fe
Phoenix
El Paso
Chihuahua
Mexico
Durango


NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
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NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
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Biodiversity by Watershed
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
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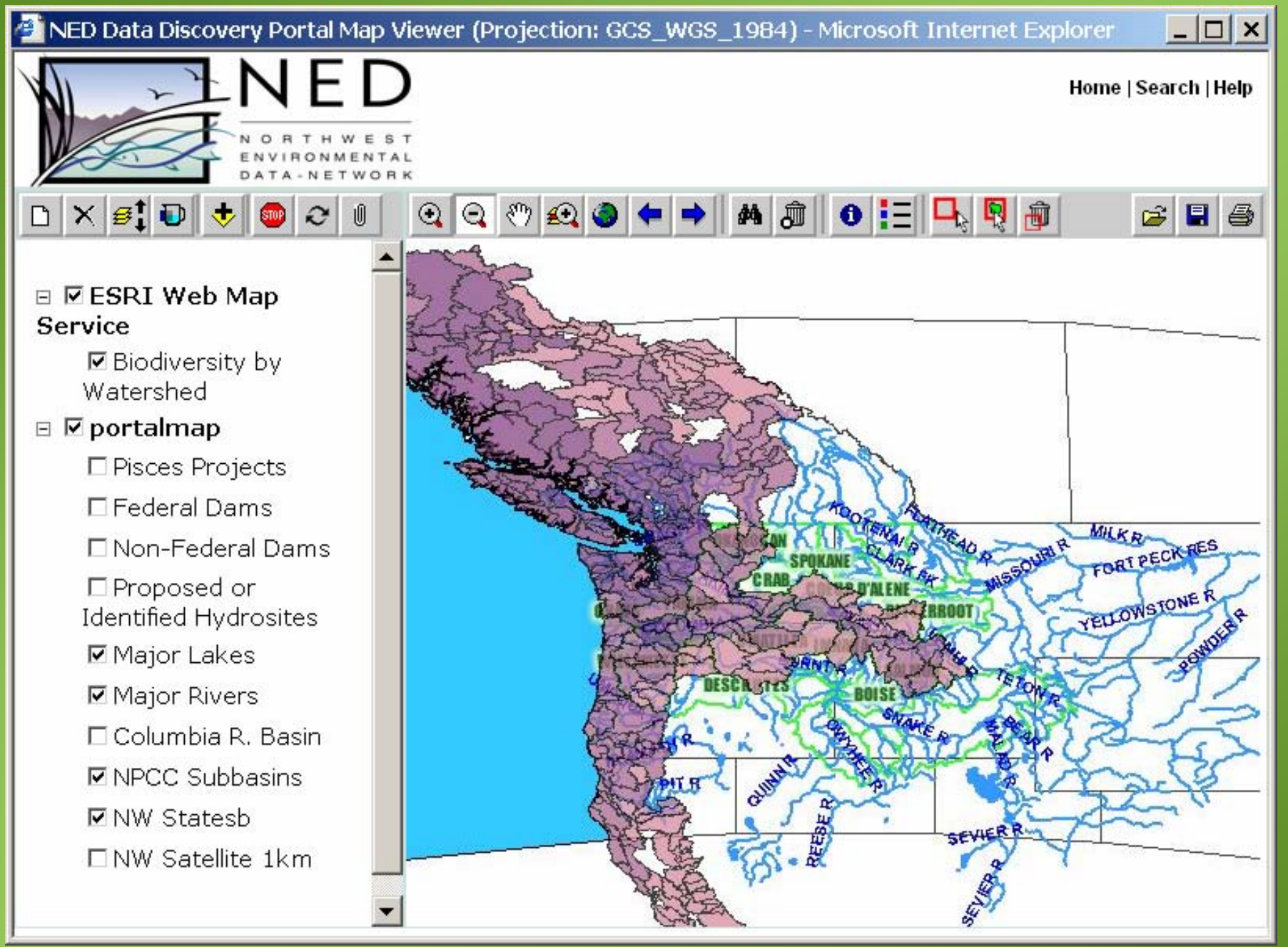
Yukon
Peace
Slave
Canada
Saskatchewan
Columbia
Missouri
Snake
Colorado
Arkansas
United States
Edmonton
Calgary
Regina
Saskatoon
Winnipeg
Helena
Bismarck
Pierre
Boise
Salt Lake City
Cheyenne
Lincoln
Denver
Carson City
San Francisco
Santa Fe
Oklahoma City
Phoenix
Dallas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Home | Search | Help
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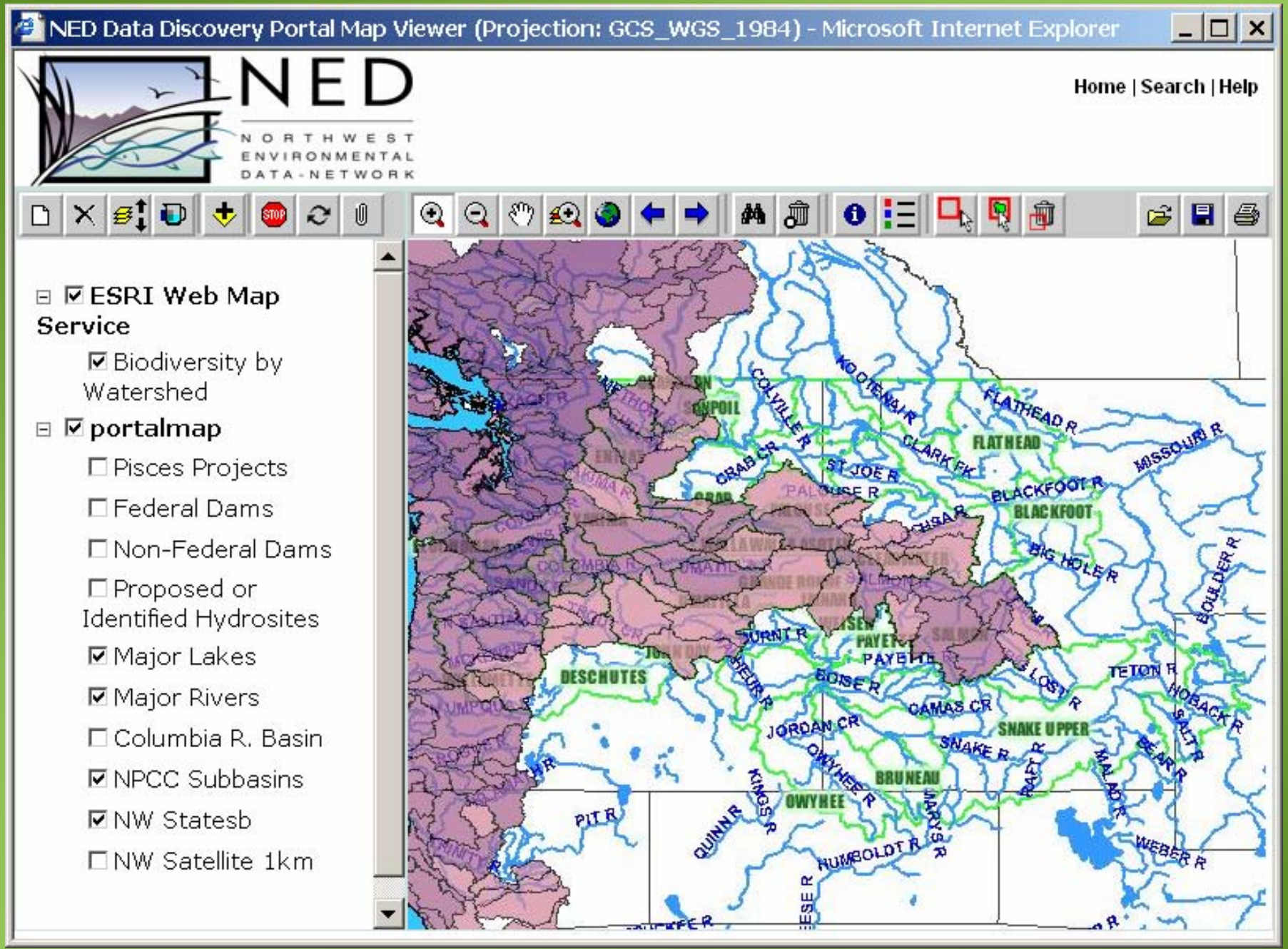
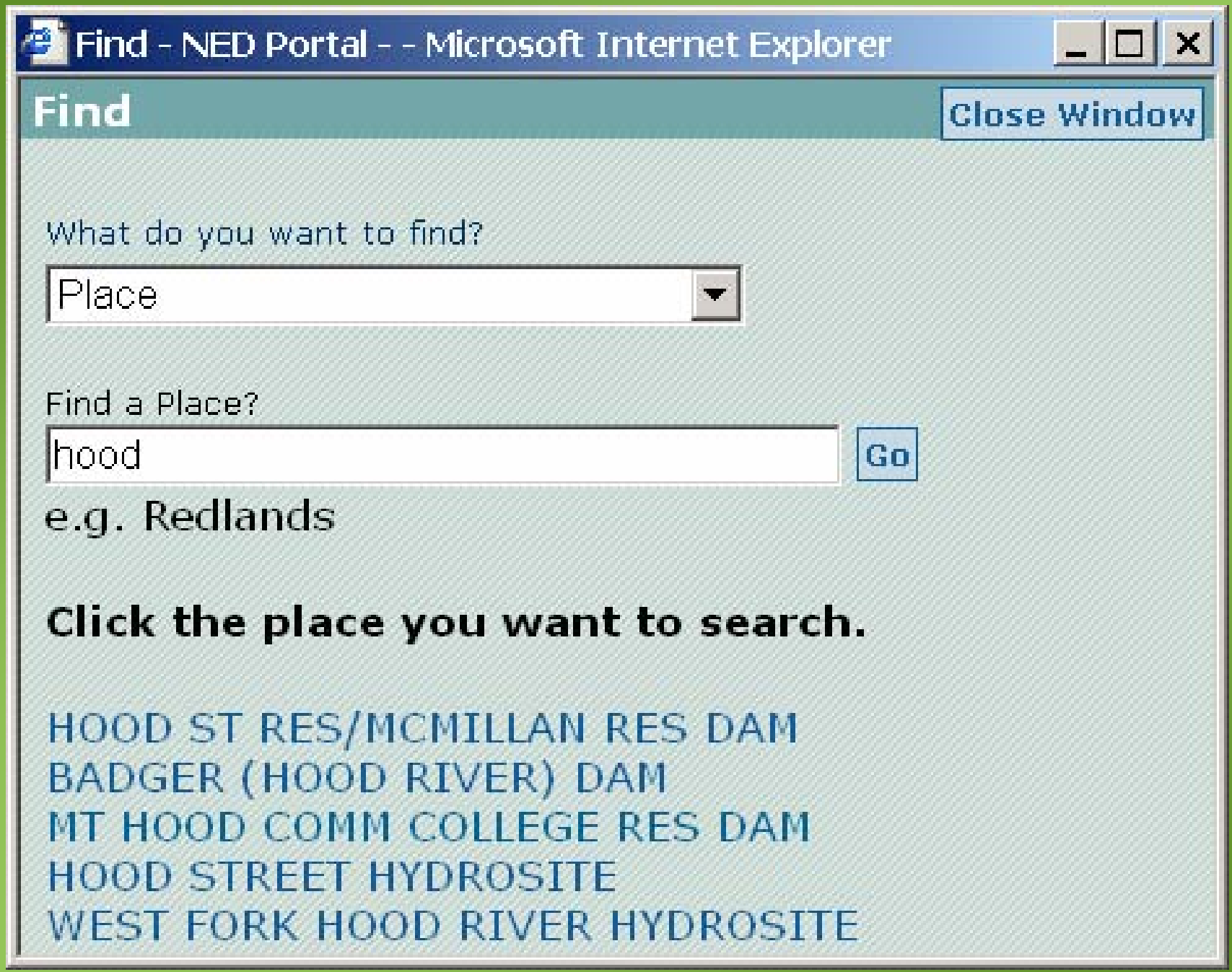
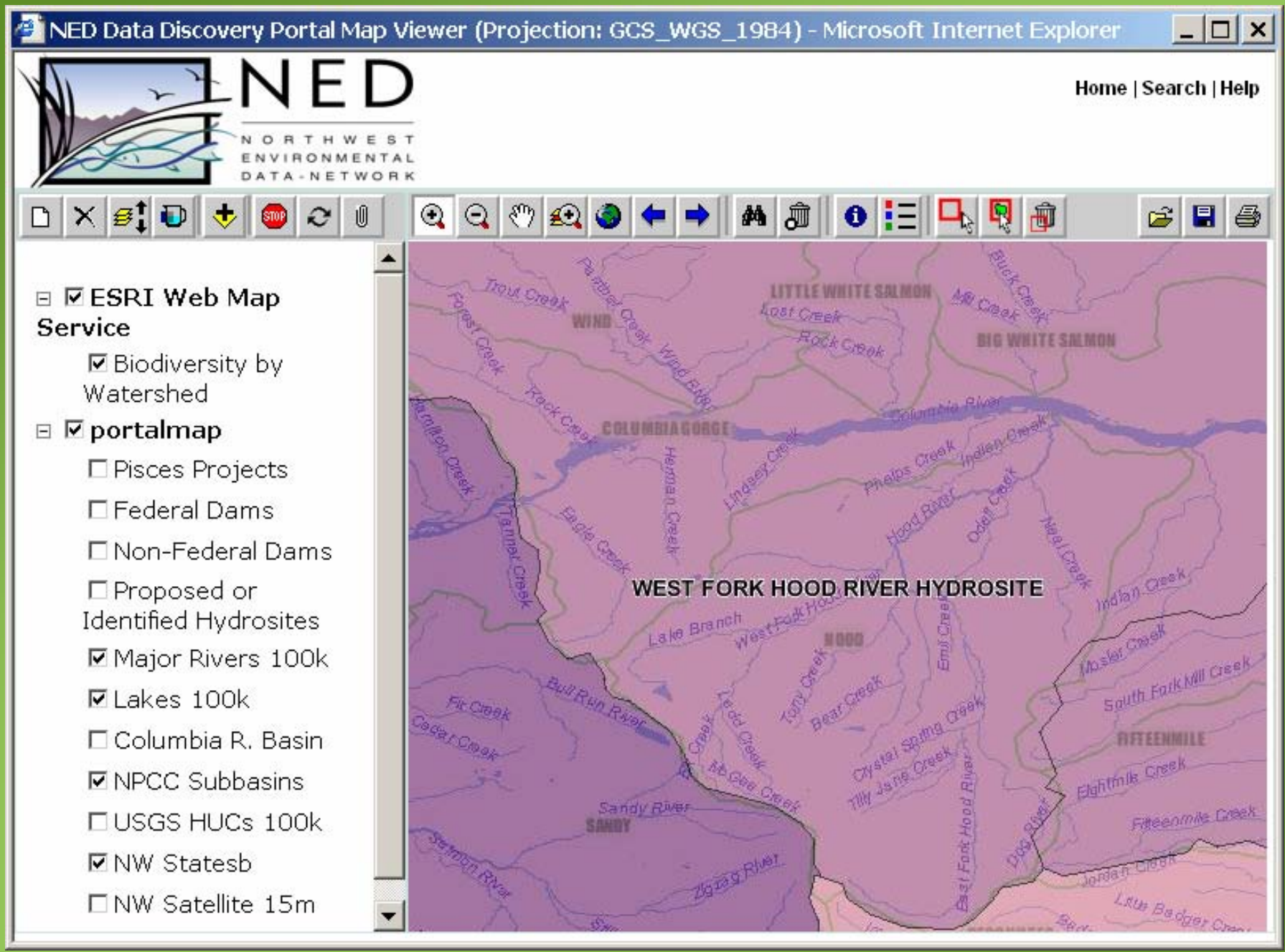
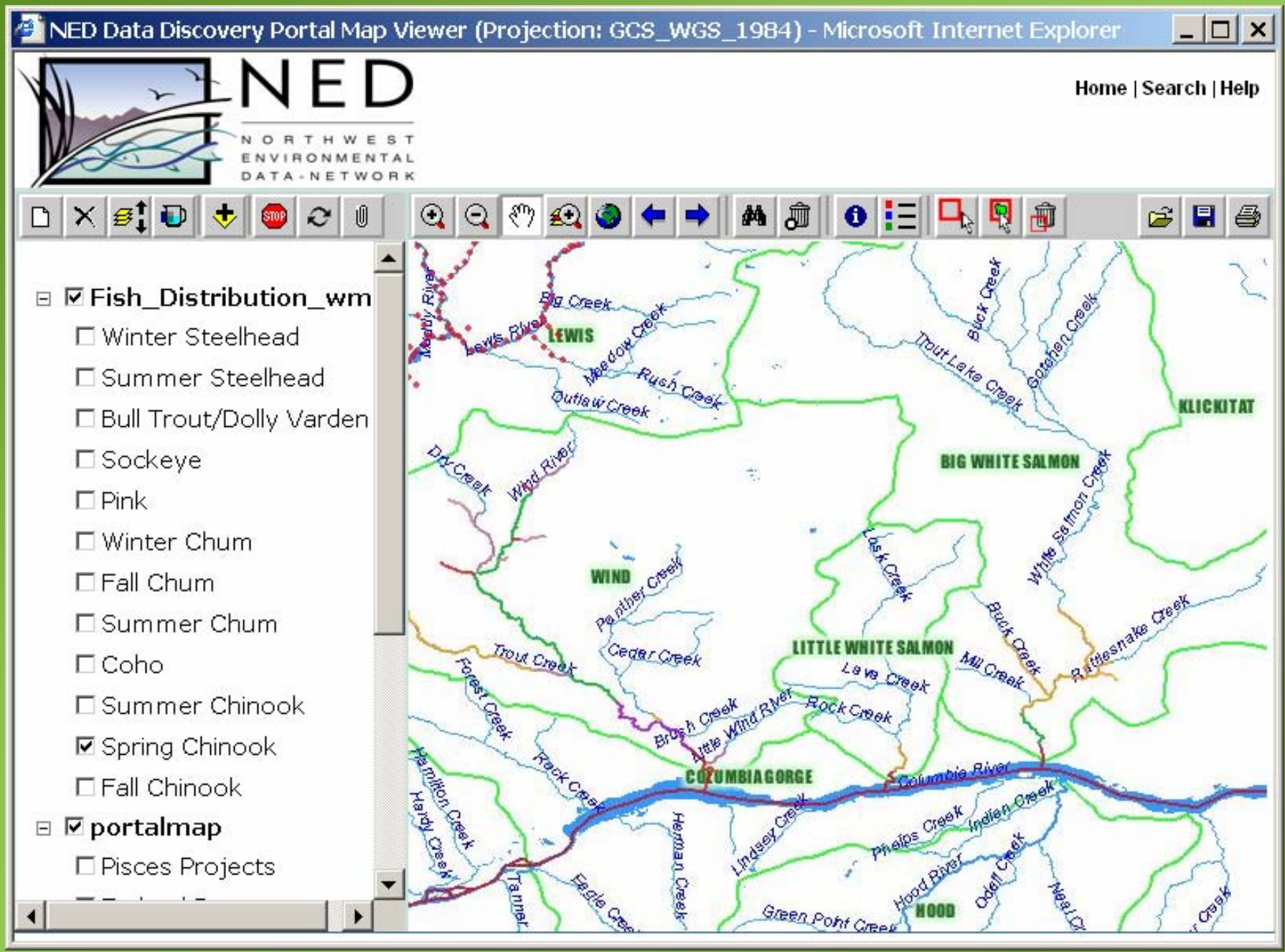
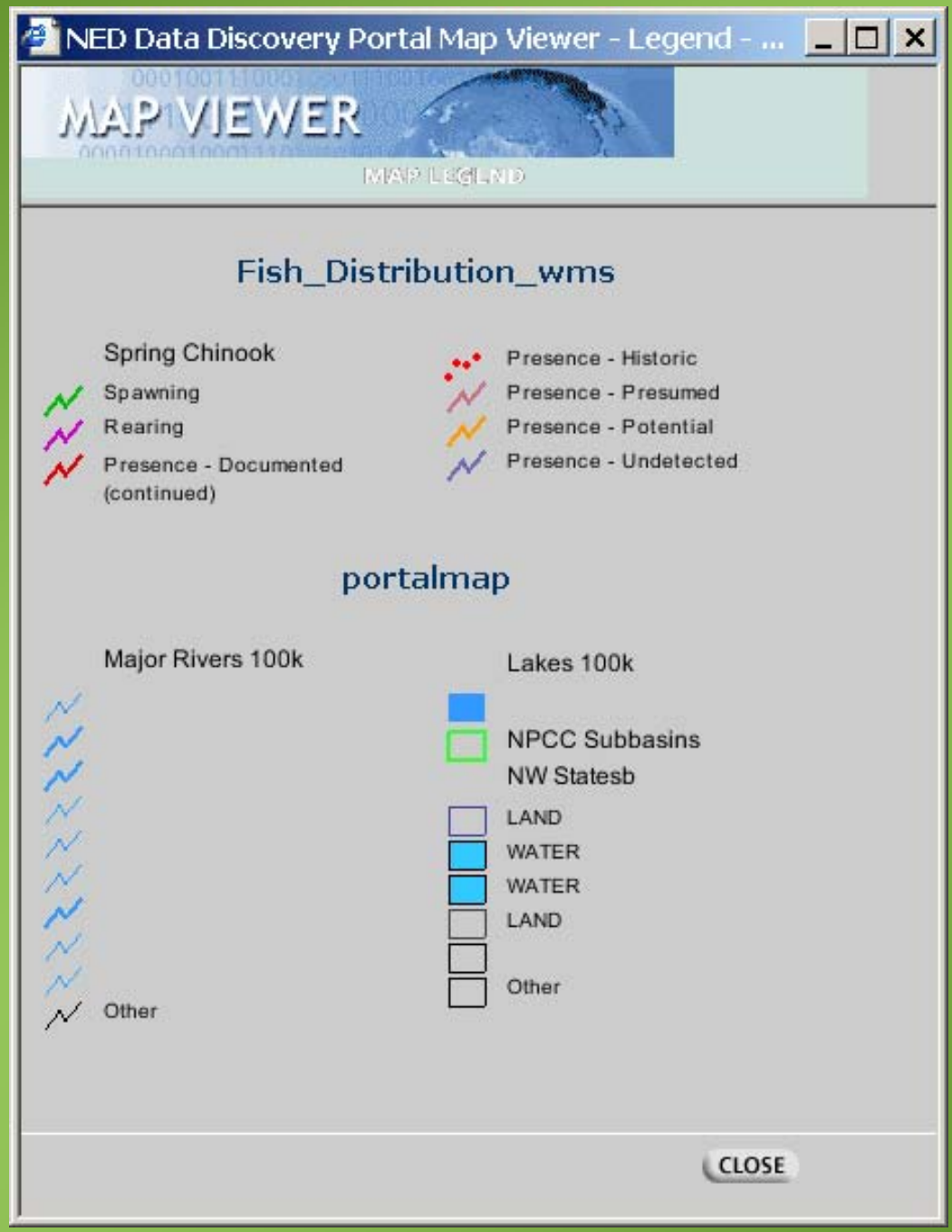
Major Rivers
Columbia R. Basin
NPCC Subbasins
NW Statesb
NW Satellite 1km
KOOTENAI R
FLATHEAD R
CLARK FK
SPOKANE
CRAB
COEUR D'ALENE
MISSOURI R
MILK R
FORT PECK RES
YELLOWSTONE R
POWDER R
BOISE
SNAKE R
TETON R
BEAR R
MALAD R
OWYHEE R
QUINN R
PIT R
REEBE R
SEVIER R

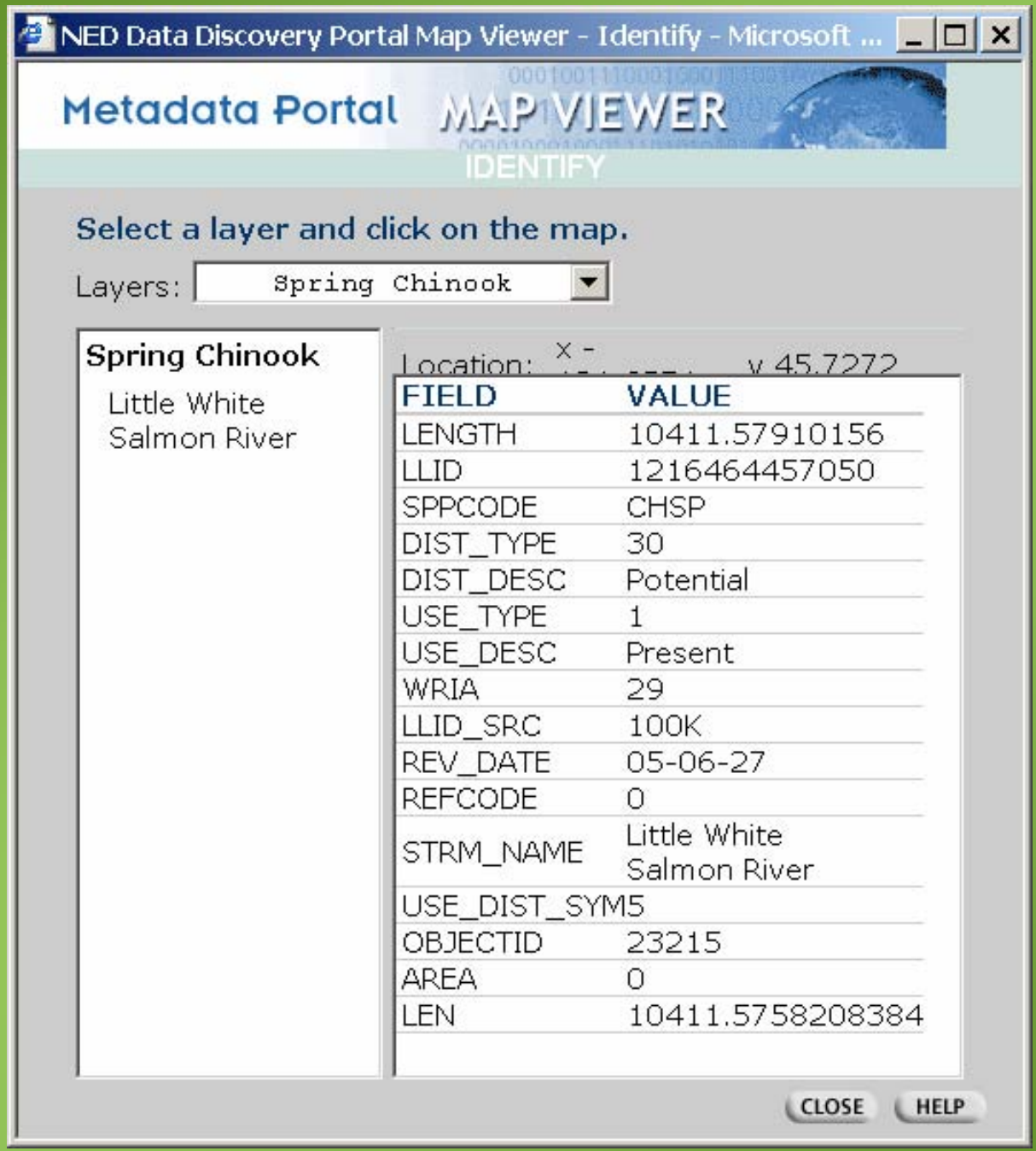

NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
ESRI Web Map Service
Biodiversity by Watershed
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
Major Lakes
Major Rivers
Columbia R. Basin
NPCC Subbasins
NW Statesb
NW Satellite 1km
KOOTENAI R
FLATHEAD R
FLATHEAD
MISSOURI R
COLVILLE R
CLARK FK
ST JOE R
CRAB CR
BLACKFOOT R
BLACKFOOT
BIG HOLE R
BOULDER R
PAYETTE
DESCHUTES
BOISE R
TETON R
NOBACK R
CAMAS CR
JORDAN CR
SNAKE UPPER
SNAKE R
OWYHEE R
BRUNEAU
OWYHEE
KINGS R
QUINN R
PIT R
MARYS R
HUMBOLDT R
MALAD R
WEBER R

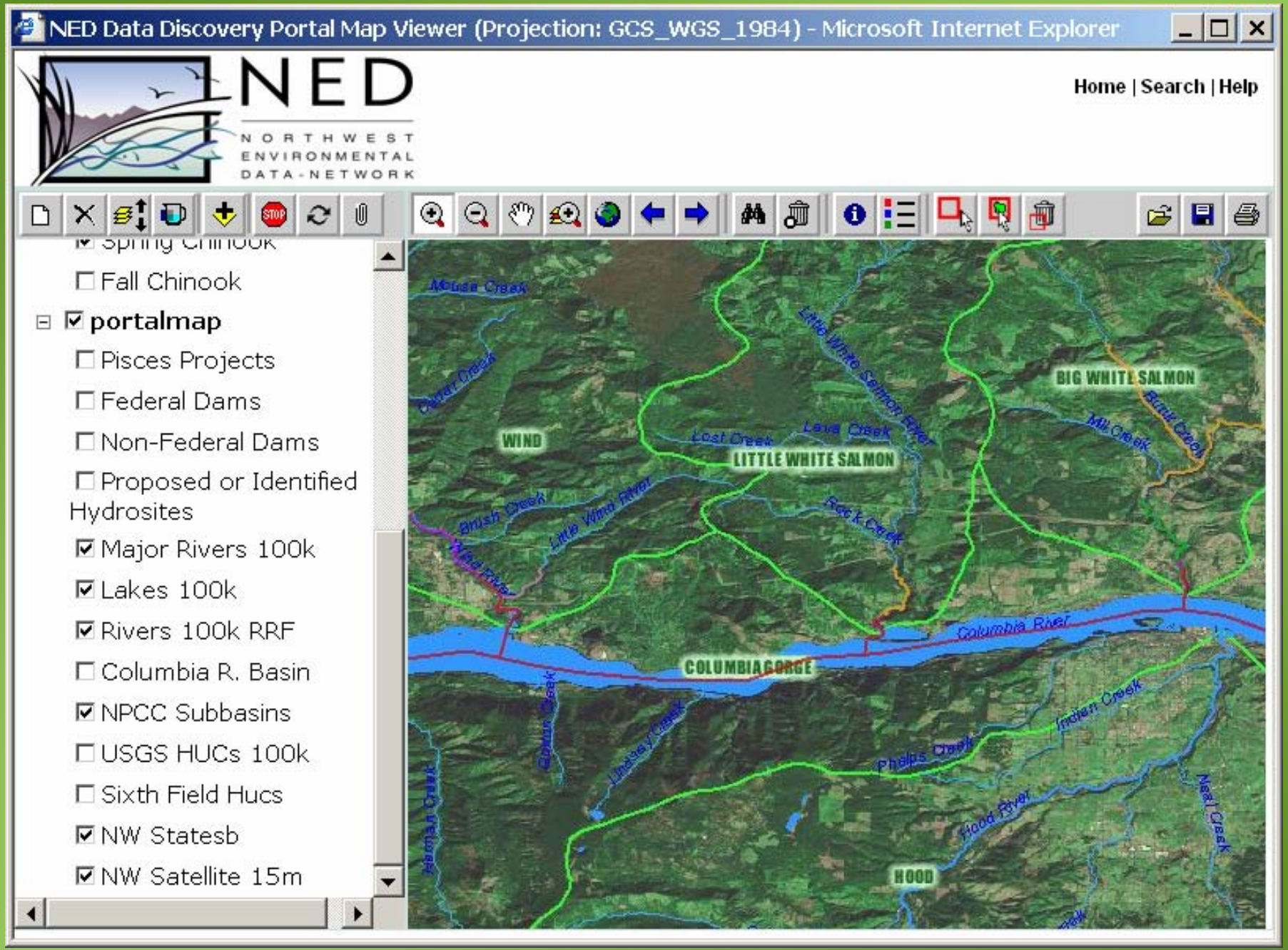

Find - NED Portal - - Microsoft Internet Explorer
Find
Close Window
What do you want to find?
Place
Find a Place?
hood
Go
e.g. Redlands
Click the place you want to search.
HOOD ST RES/MCMILLAN RES DAM
BADGER (HOOD RIVER) DAM
MT HOOD COMM COLLEGE RES DAM
HOOD STREET HYDROSITE
WEST FORK HOOD RIVER HYDROSITE

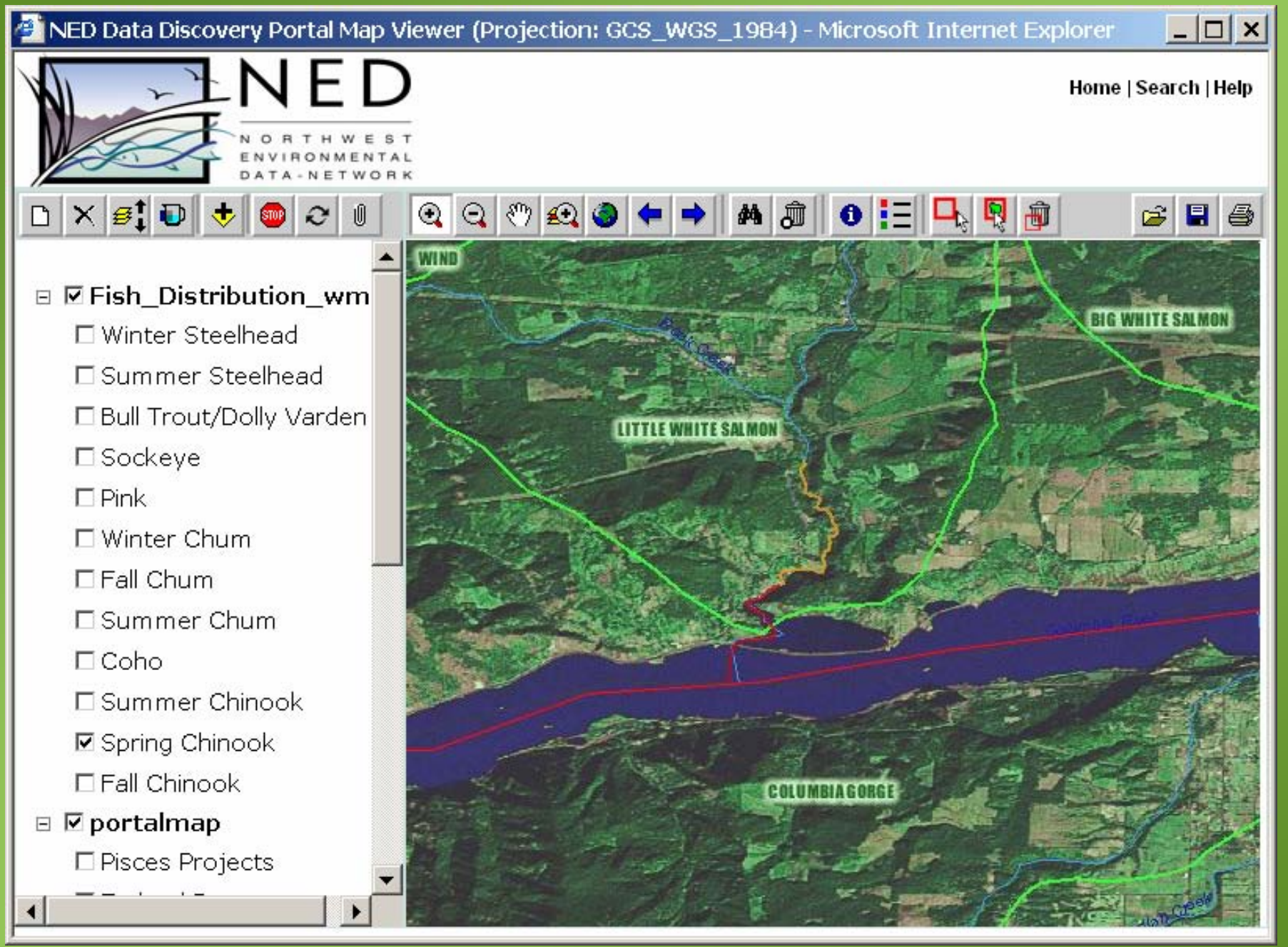

NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
ESRI Web Map Service
Biodiversity by Watershed
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
Major Rivers 100k
Lakes 100k
Columbia R. Basin
NPCC Subbasins
USGS HUCs 100k
NW Statesb
NW Satellite 15m
WEST FORK HOOD RIVER HYDROSITE
LITTLE WHITE SALMON
BIG WHITE SALMON
WIND
COLUMBIA GORGE
HOOD
SANDY
FIFTEENMILE
Columbia River
Hood River
Lake Branch
Bull Run River
Sandy River
Zigzag River
Eagle Creek
Herman Creek
Lindsey Creek
Phelps Creek
Indian Creek
Neal Creek
Mosier Creek
South Fork Mill Creek
Eightmile Creek
Fifteenmile Creek
Jordan Creek
Little Badger Creek
Dog River
East Fork Hood River
Crystal Spring Creek
Tilly Jane Creek
Bear Creek
Tony Creek
Emil Creek
Ledd Creek
McGee Creek
Fir Creek
Cedar Creek
Tanner Creek
Trout Creek
Forest Creek
Rock Creek
Lost Creek
Mill Creek
Buck Creek
Wind River
Hamilton Creek
Salmon River

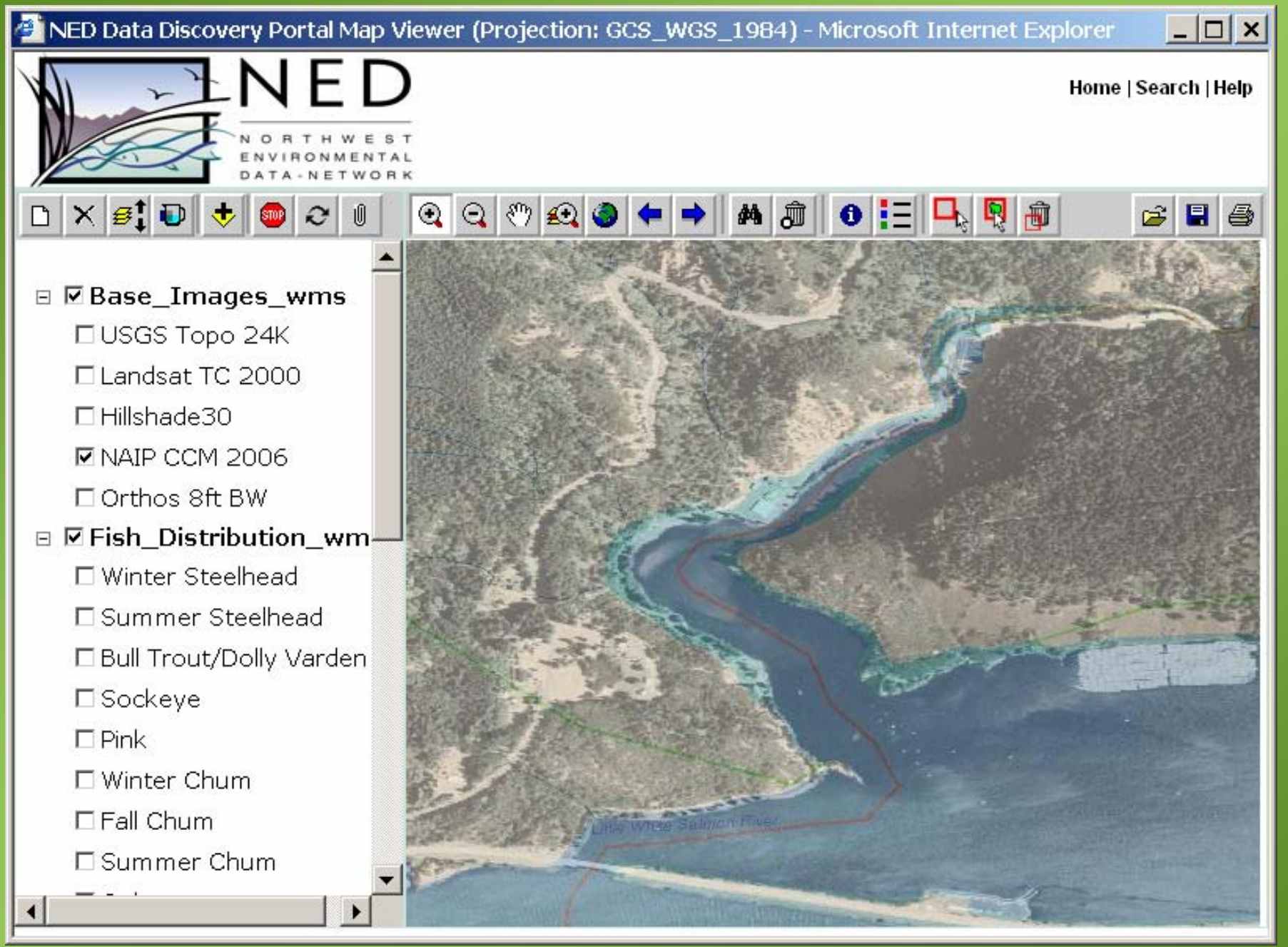

NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
Fish_Distribution_wm
Winter Steelhead
Summer Steelhead
Bull Trout/Dolly Varden
Sockeye
Pink
Winter Chum
Fall Chum
Summer Chum
Coho
Summer Chinook
Spring Chinook
Fall Chinook
portalmap
Pisces Projects
LEWIS
KLICKITAT
BIG WHITE SALMON
WIND
LITTLE WHITE SALMON
COLUMBIA GORGE
HOOD
Big Creek
Lewis River
Meadow Creek
Rush Creek
Outlaw Creek
Trout Lake Creek
Buck Creek
Gotchen Creek
Dry Creek
Wind River
Panther Creek
Cedar Creek
Trout Creek
Forest Creek
Brush Creek
Little Wind River
Rock Creek
Hamilton Creek
Hardy Creek
Tanner
Eagle Creek
Herman Creek
Lindsey Creek
Lava Creek
Mill Creek
Rattlesnake Creek
Columbia River
Indian Creek
Phelps Creek
Hood River
Odell Creek
Green Point Creek

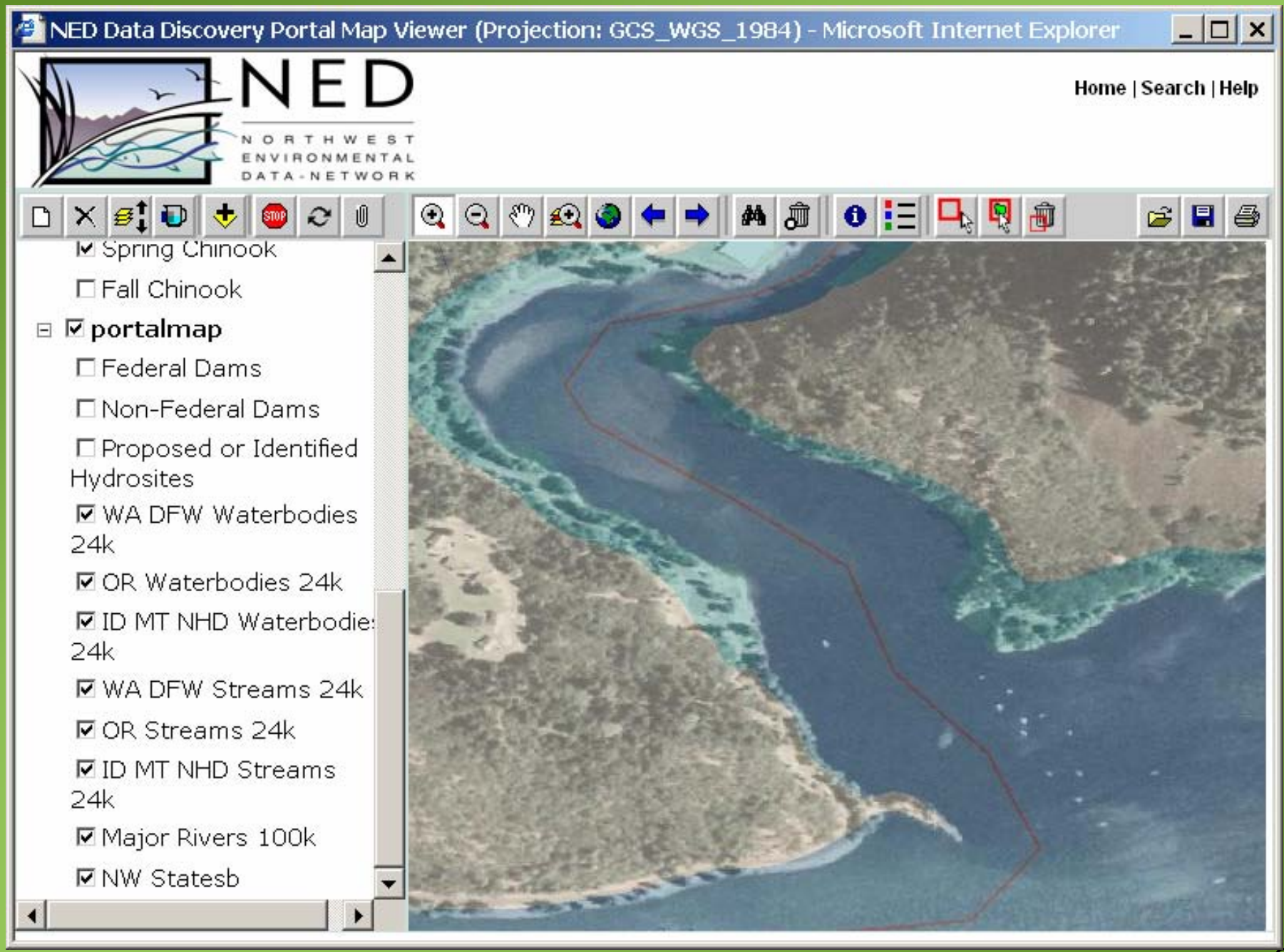

NED Data Discovery Portal Map Viewer - Legend - ...
MAP VIEWER
MAP LEGEND
Fish_Distribution_wms
Spring Chinook
Spawning
Rearing
Presence - Documented
(continued)
Presence - Historic
Presence - Presumed
Presence - Potential
Presence - Undetected
portalmap
Major Rivers 100k
Other
Lakes 100k
NPCC Subbasins
NW Statesb
LAND
WATER
WATER
LAND
Other
CLOSE

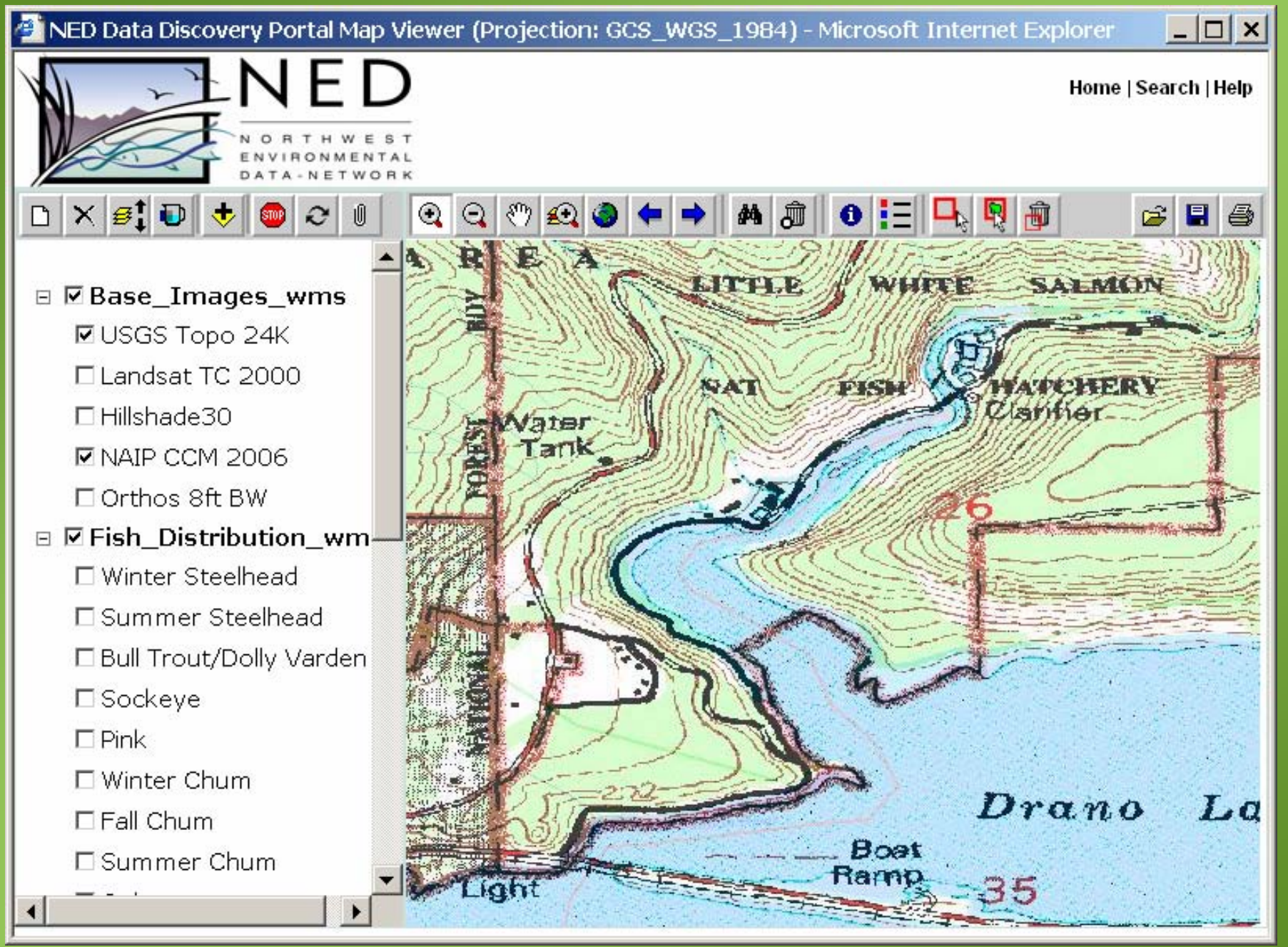

NED Data Discovery Portal Map Viewer - Identify - Microsoft ...
Metadata Portal
MAP VIEWER
IDENTIFY
Select a layer and click on the map.
Layers:
Spring Chinook
Spring Chinook
Little White Salmon River
Location:
y 45.7272
FIELD
VALUE
LENGTH
10411.57910156
LLID
1216464457050
SPPCODE
CHSP
DIST_TYPE
30
DIST_DESC
Potential
USE_TYPE
1
USE_DESC
Present
WRIA
29
LLID_SRC
100K
REV_DATE
05-06-27
REFCODE
0
STRM_NAME
Little White Salmon River
USE_DIST_SYM5
OBJECTID
23215
AREA
0
LEN
10411.5758208384
CLOSE
HELP

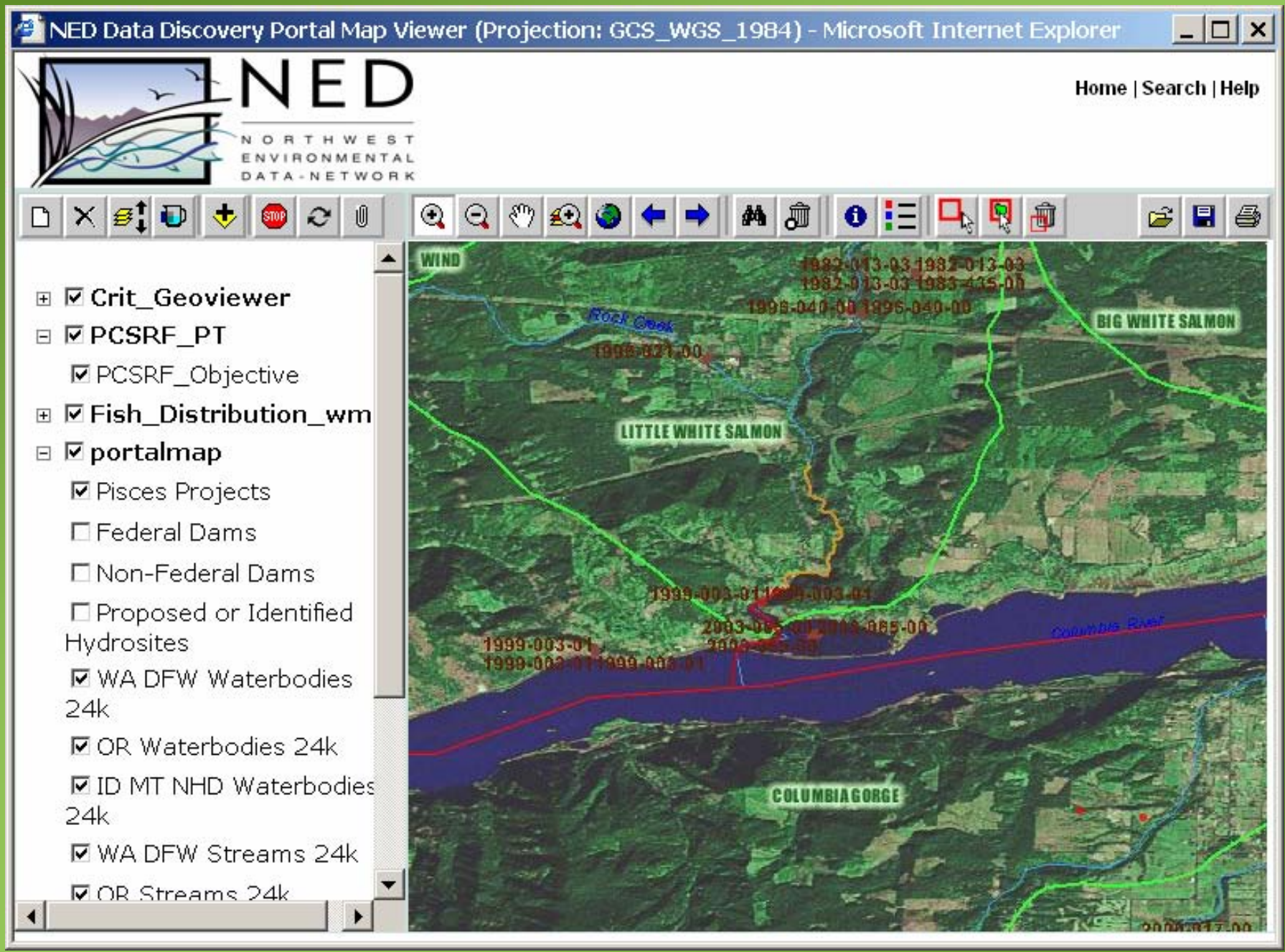

NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
Fall Chinook
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
Major Rivers 100k
Lakes 100k
Rivers 100k RRF
Columbia R. Basin
NPCC Subbasins
USGS HUCs 100k
Sixth Field Hucs
NW Statesb
NW Satellite 15m
WIND
LITTLE WHITE SALMON
BIG WHITE SALMON
COLUMBIA GORGE
HOOD
Columbia River
Hood River

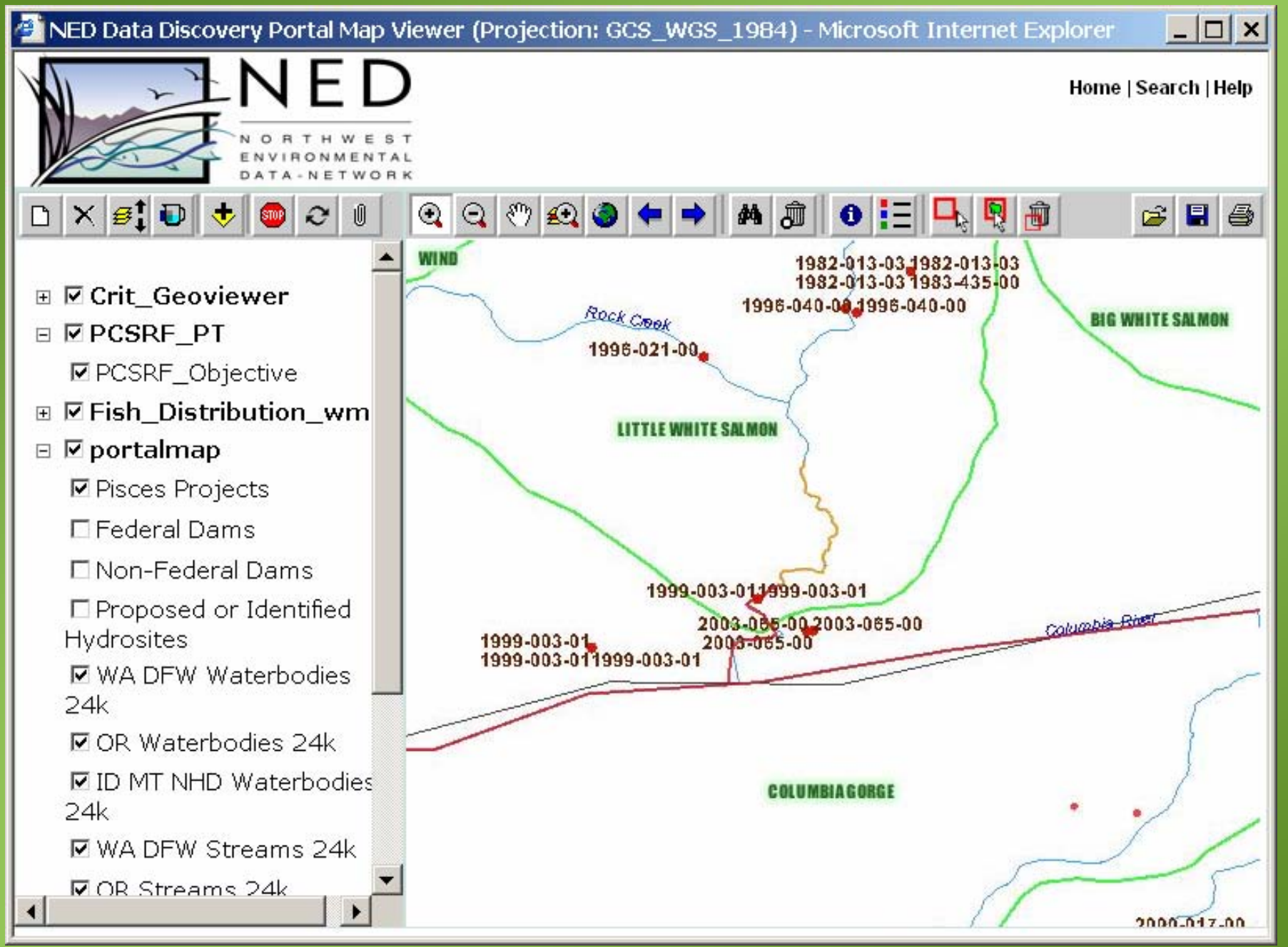

NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
Fish_Distribution_wm
Winter Steelhead
Summer Steelhead
Bull Trout/Dolly Varden
Sockeye
Pink
Winter Chum
Fall Chum
Summer Chum
Coho
Summer Chinook
Spring Chinook
Fall Chinook
portalmap
Pisces Projects
WIND
BIG WHITE SALMON
LITTLE WHITE SALMON
COLUMBIA GORGE

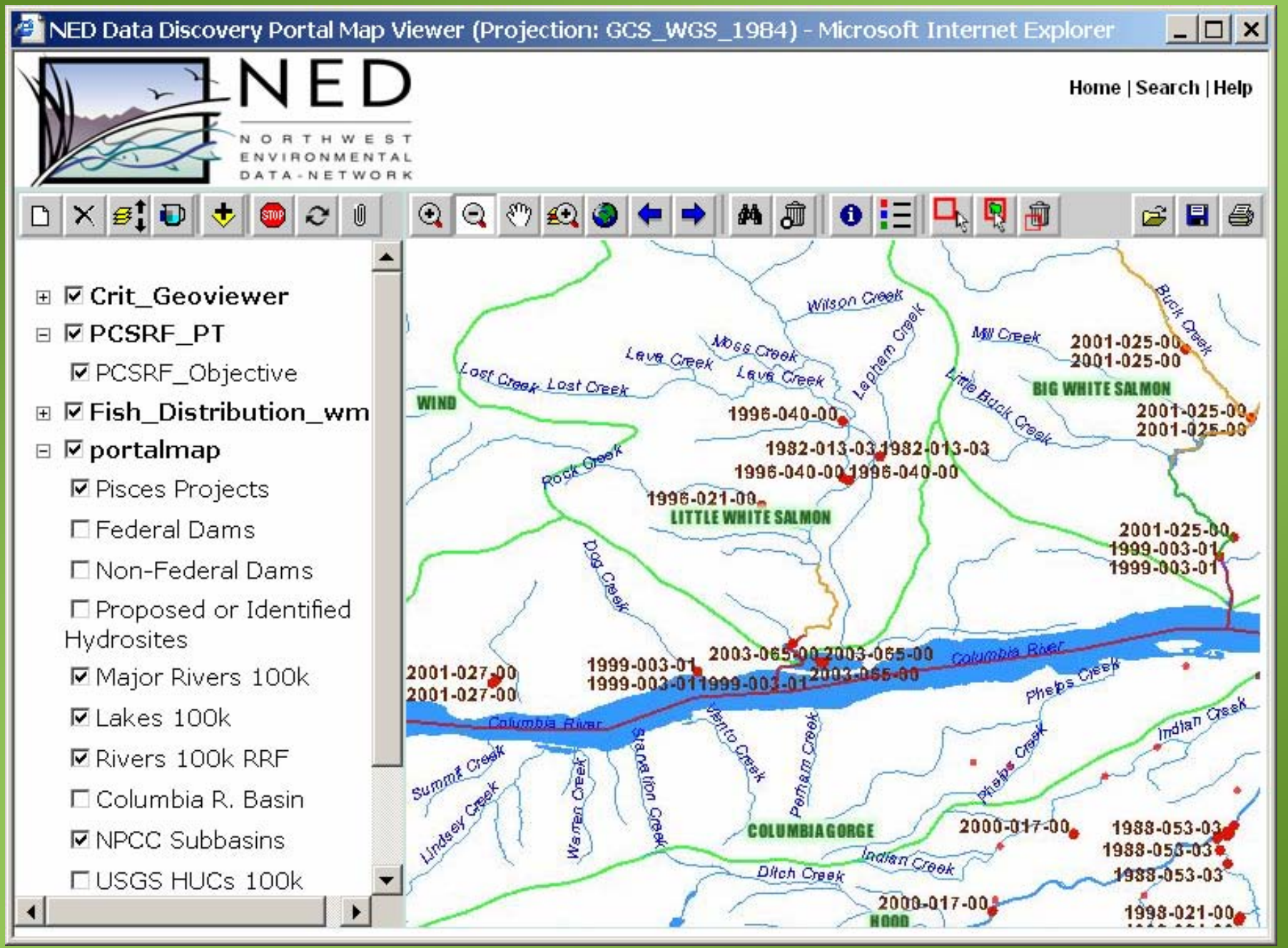

NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST
ENVIRONMENTAL
DATA-NETWORK
Home | Search | Help
Base_Images_wms
USGS Topo 24K
Landsat TC 2000
Hillshade30
NAIP CCM 2006
Orthos 8ft BW
Fish_Distribution_wm
Winter Steelhead
Summer Steelhead
Bull Trout/Dolly Varden
Sockeye
Pink
Winter Chum
Fall Chum
Summer Chum

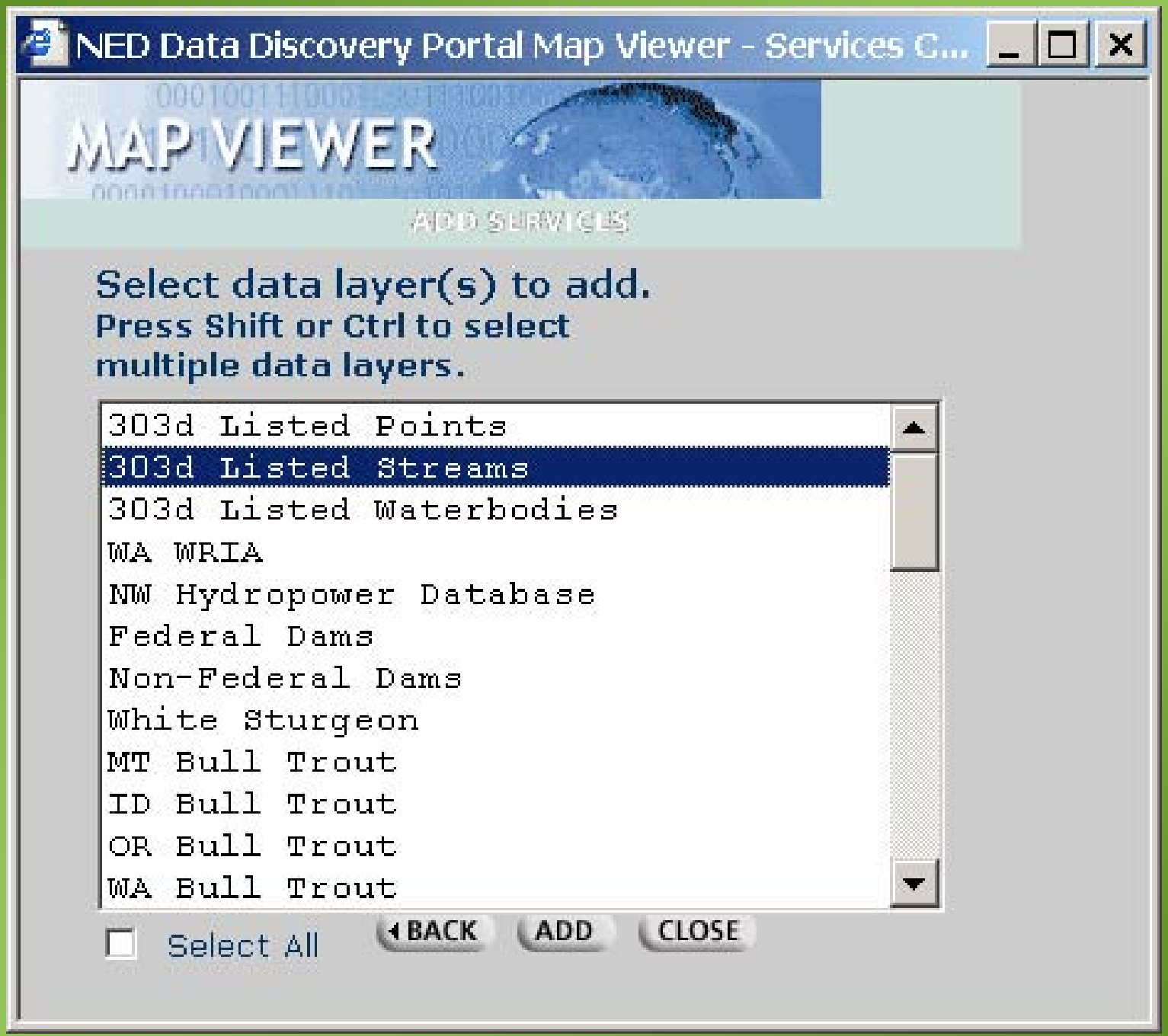

NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
Spring Chinook
Fall Chinook
portalmap
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
WA DFW Waterbodies 24k
OR Waterbodies 24k
ID MT NHD Waterbodie: 24k
WA DFW Streams 24k
OR Streams 24k
ID MT NHD Streams 24k
Major Rivers 100k
NW Statesb

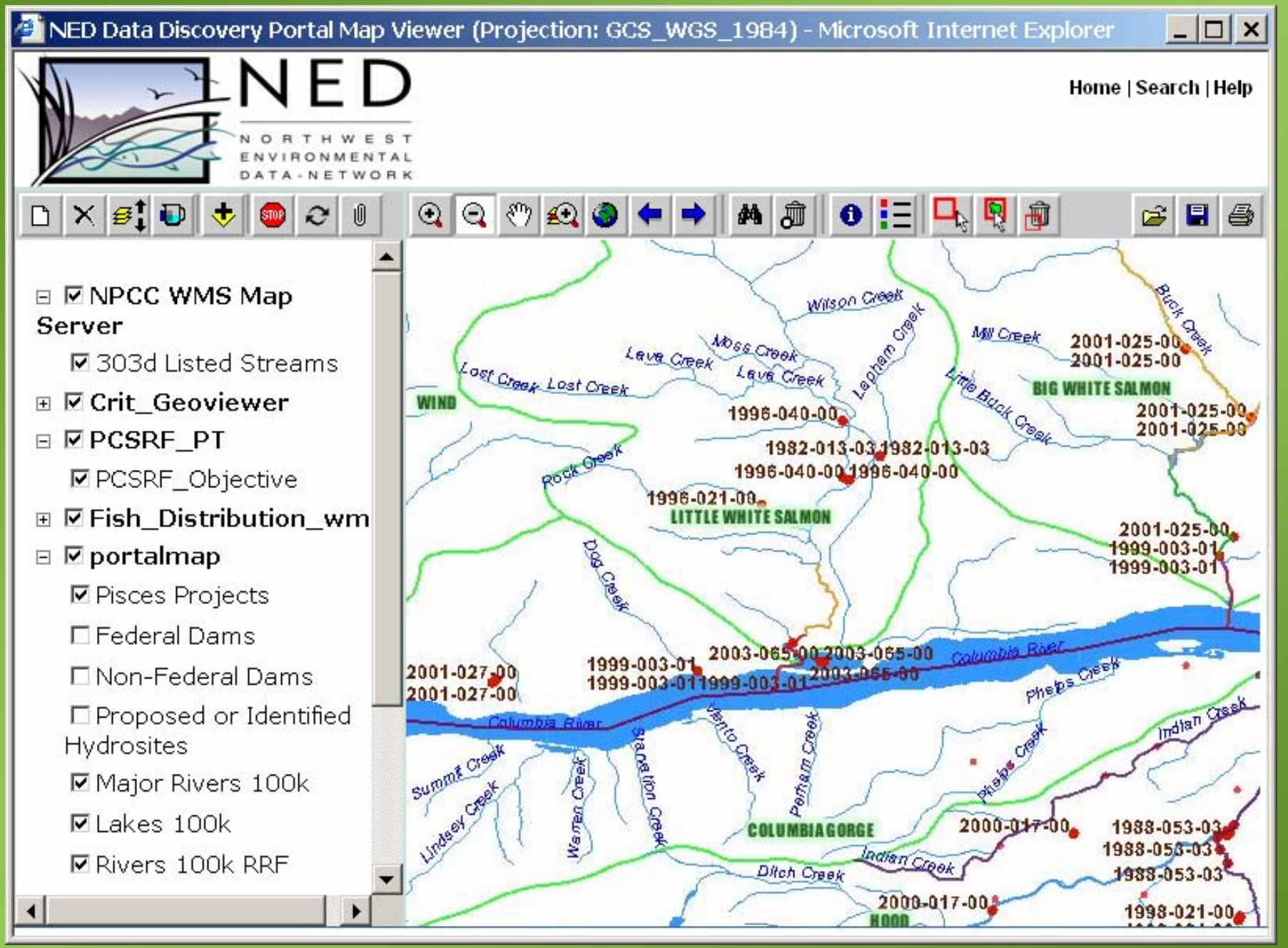

NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
Base_Images_wms
USGS Topo 24K
Landsat TC 2000
Hillshade30
NAIP CCM 2006
Orthos 8ft BW
Fish_Distribution_wm
Winter Steelhead
Summer Steelhead
Bull Trout/Dolly Varden
Sockeye
Pink
Winter Chum
Fall Chum
Summer Chum
LITTLE WHITE SALMON
SAT FISH HATCHERY
Clarifier
Water Tank
FOREST
26
Drano La
Boat Ramp
Light
35

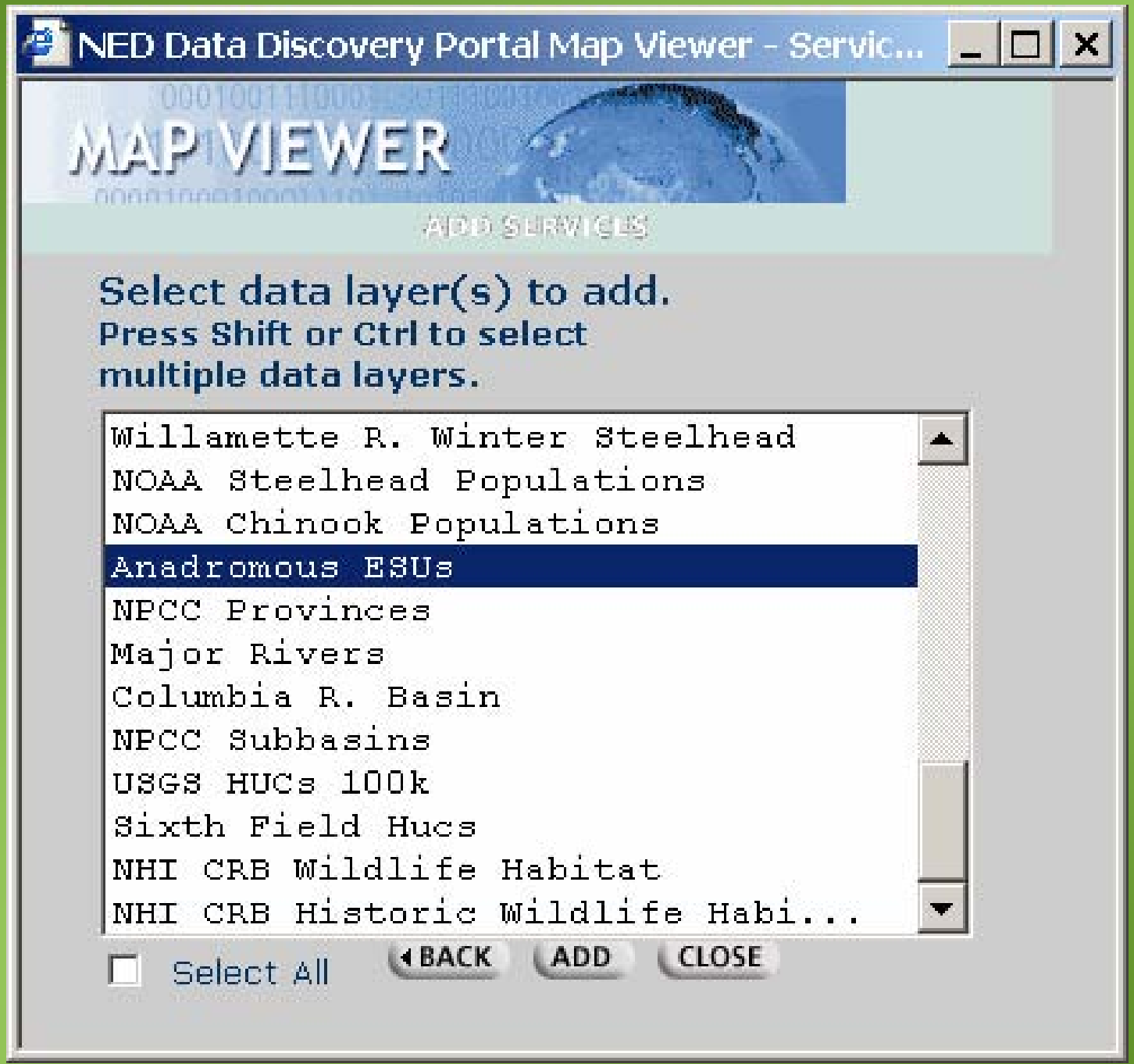

NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
Crit_Geoviewer
PCSRF_PT
PCSRF_Objective
Fish_Distribution_wm
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
WA DFW Waterbodies 24k
OR Waterbodies 24k
ID MT NHD Waterbodies 24k
WA DFW Streams 24k
OR Streams 24k
WIND
Rock Creek
BIG WHITE SALMON
LITTLE WHITE SALMON
Columbia River
COLUMBIA GORGE

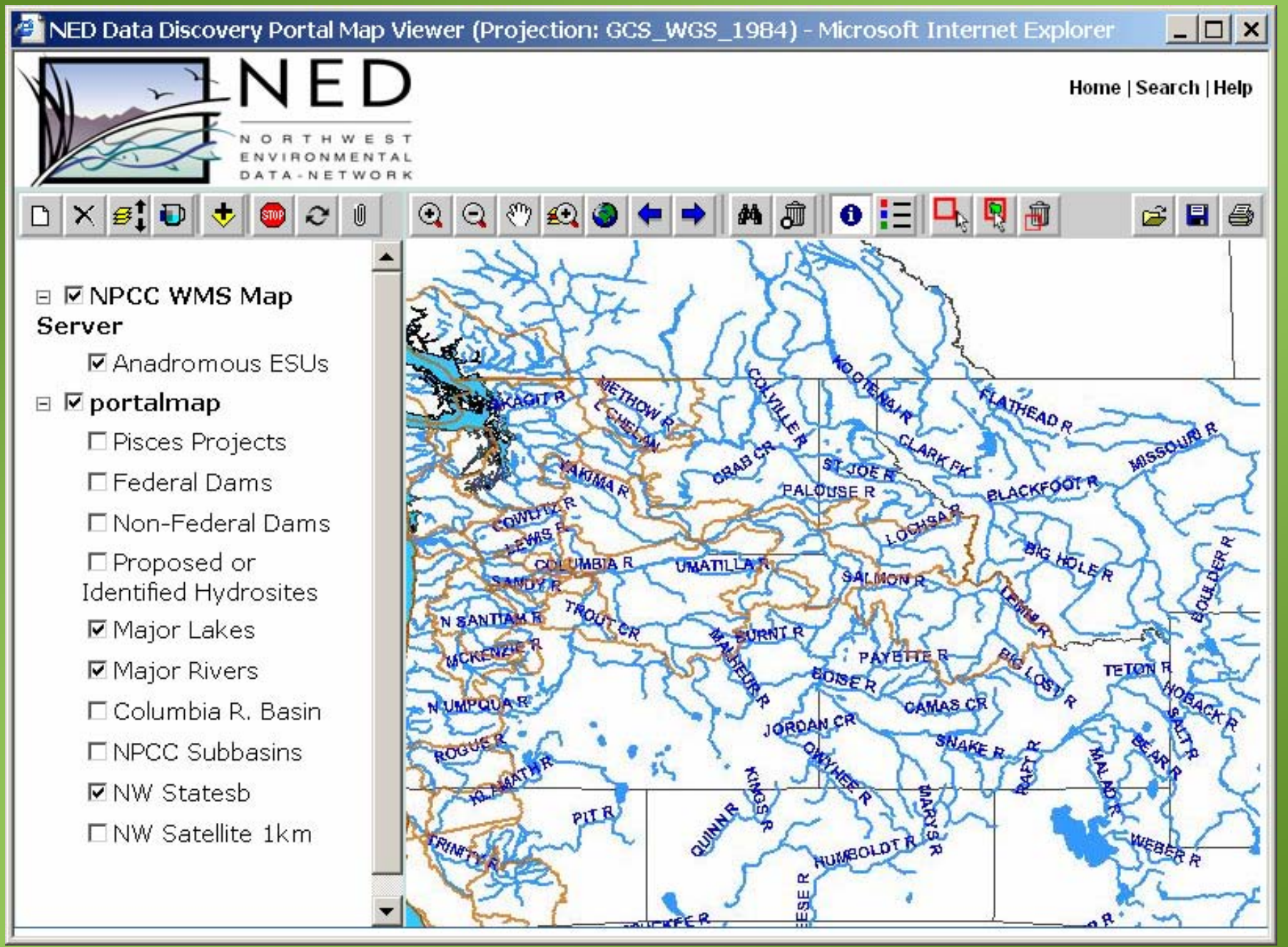

NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
Crit_Geoviewer
PCSRF_PT
PCSRF_Objective
Fish_Distribution_wm
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
WA DFW Waterbodies 24k
OR Waterbodies 24k
ID MT NHD Waterbodies 24k
WA DFW Streams 24k
OR Streams 24k
WIND
Rock Creek
1996-021-00
LITTLE WHITE SALMON
BIG WHITE SALMON
1982-013-03 1982-013-03
1982-013-03 1983-435-00
1996-040-00 1996-040-00
1999-003-01 1999-003-01
2003-065-00 2003-065-00
2003-065-00
1999-003-01
1999-003-01 1999-003-01
Columbia River
COLUMBIA GORGE

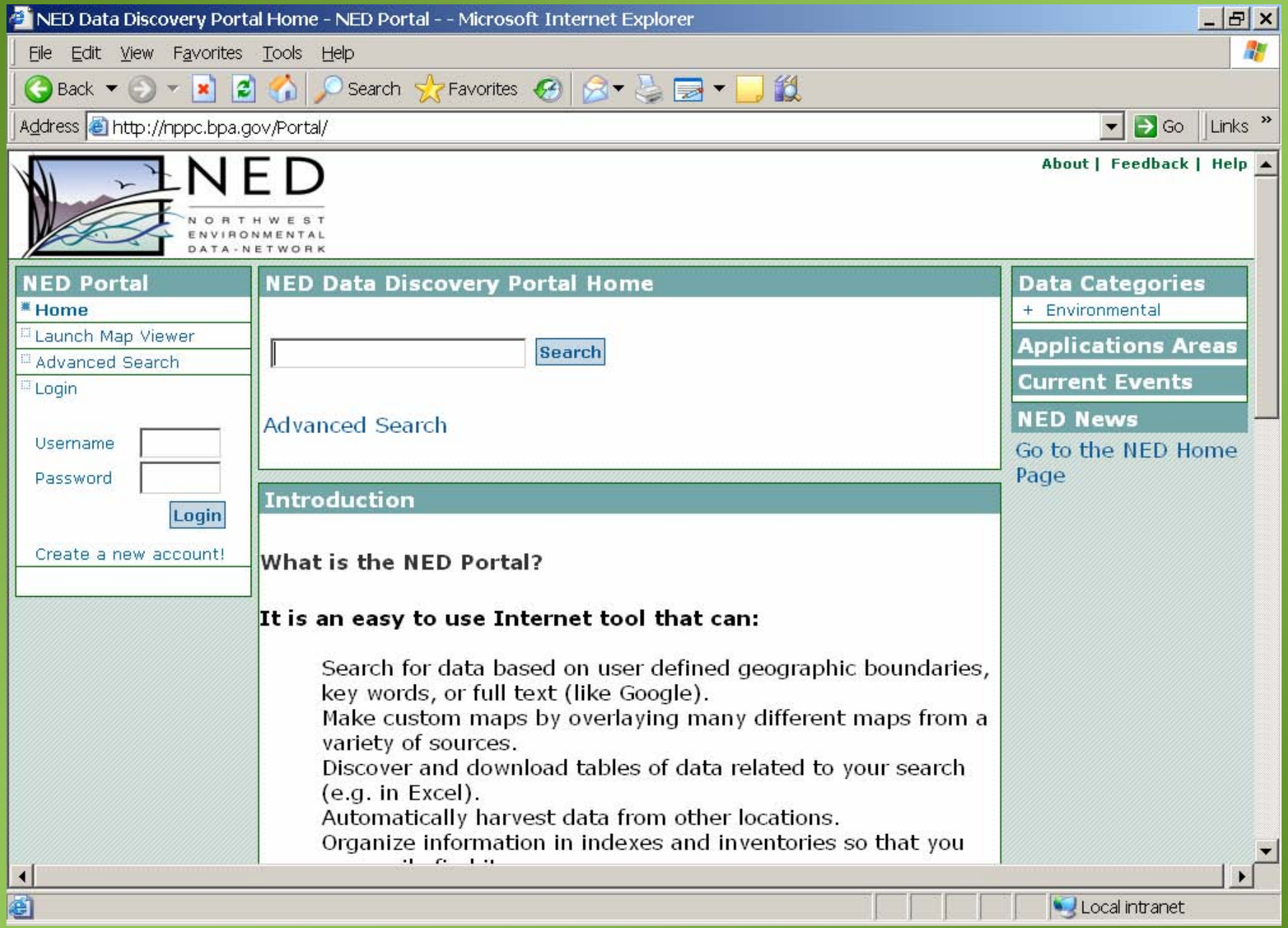

NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
Crit_Geoviewer
PCSRF_PT
PCSRF_Objective
Fish_Distribution_wm
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
Major Rivers 100k
Lakes 100k
Rivers 100k RRF
Columbia R. Basin
NPCC Subbasins
USGS HUCs 100k
Wilson Creek
Mill Creek
Buck Creek
Moss Creek
Lava Creek
Lost Creek
Lapham Creek
Little Buck Creek
WIND
BIG WHITE SALMON
1996-040-00
1982-013-03
Rock Creek
LITTLE WHITE SALMON
1996-021-00
Dog Creek
Columbia River
Phelps Creek
Indian Creek
Summit Creek
Lindsey Creek
Warren Creek
Starvation Creek
Perham Creek
COLUMBIA GORGE
Ditch Creek
HOOD
2001-025-00
1999-003-01
2003-065-00
2001-027-00
2000-017-00
1988-053-03
1998-021-00

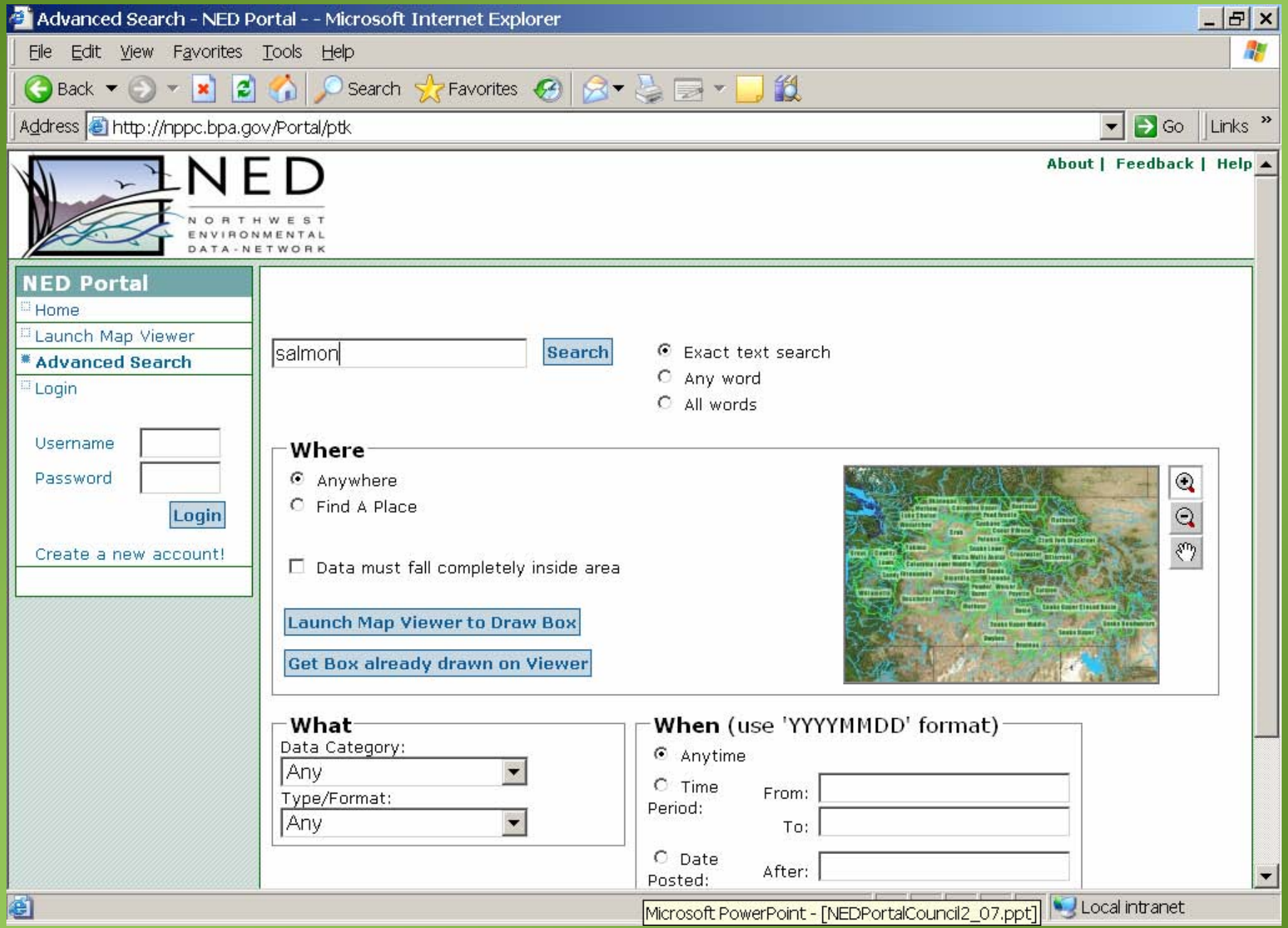

NED Data Discovery Portal Map Viewer - Services C...
MAP VIEWER
ADD SERVICES
Select data layer(s) to add.
Press Shift or Ctrl to select
multiple data layers.
303d Listed Points
303d Listed Streams
303d Listed Waterbodies
WA WRIA
NW Hydropower Database
Federal Dams
Non-Federal Dams
White Sturgeon
MT Bull Trout
ID Bull Trout
OR Bull Trout
WA Bull Trout
Select All
BACK
ADD
CLOSE


NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
NPCC WMS Map Server
303d Listed Streams
Crit_Geoviewer
PCSRF_PT
PCSRF_Objective
Fish_Distribution_wm
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
Major Rivers 100k
Lakes 100k
Rivers 100k RRF
Wilson Creek
Buck Creek
Mill Creek
Moss Creek
Leva Creek
Lost Creek
Lapham Creek
Little Buck Creek
WIND
BIG WHITE SALMON
1996-040-00
1982-013-03
Rock Creek
1996-021-00
LITTLE WHITE SALMON
Dog Creek
1999-003-01
2003-065-00
Columbia River
2001-027-00
Phelps Creek
Indian Creek
Summit Creek
Lindsey Creek
Warren Creek
Starvation Creek
Ventto Creek
Pelham Creek
COLUMBIA GORGE
2000-017-00
1988-053-03
Ditch Creek
HOOD
1998-021-00


NED Data Discovery Portal Map Viewer - Servic...
MAP VIEWER
ADD SERVICES
Select data layer(s) to add.
Press Shift or Ctrl to select
multiple data layers.
Willamette R. Winter Steelhead
NOAA Steelhead Populations
NOAA Chinook Populations
Anadromous ESUs
NPCC Provinces
Major Rivers
Columbia R. Basin
NPCC Subbasins
USGS HUCs 100k
Sixth Field Hucs
NHI CRB Wildlife Habitat
NHI CRB Historic Wildlife Habi...
Select All
BACK
ADD
CLOSE


NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
NPCC WMS Map Server
Anadromous ESUs
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
Major Lakes
Major Rivers
Columbia R. Basin
NPCC Subbasins
NW Statesb
NW Satellite 1km
SKAGIT R
METHOW R
LCHELAN
COLVILLE R
KOOTENAI R
FLATHEAD R
CLARK FK
MISSOURI R
CRAB CR
ST JOE R
PALOUSE R
BLACKFOOT R
YAKIMA R
COWLITZ R
LEWIS R
LOCHSA R
BIG HOLE R
COLUMBIA R
UMATILLA R
SALMON R
BOULDER R
SANDY R
N SANTIAM R
TROUT CR
LEMHI R
MCKENZIE R
BURNT R
MALHEUR R
PAYETTE R
BIG LOST R
TETON R
BOISE R
N UMPQUA R
CAMAS CR
NOBACK R
JORDAN CR
SALT R
ROGUE R
SNAKE R
OWYHEE R
BEAR R
KLAMATH R
RAFT R
MALAD R
KINGS R
MARYS R
PIT R
QUINN R
HUMBOLDT R
TRINITY R
WEBER R


NED Data Discovery Portal Home - NED Portal - - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://nppc.bpa.gov/Portal/
Go Links
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
About | Feedback | Help
NED Portal
Home
Launch Map Viewer
Advanced Search
Login
Username
Password
Login
Create a new account!
NED Data Discovery Portal Home
Search
Advanced Search
Introduction
What is the NED Portal?
It is an easy to use Internet tool that can:
Search for data based on user defined geographic boundaries, key words, or full text (like Google).
Make custom maps by overlaying many different maps from a variety of sources.
Discover and download tables of data related to your search (e.g. in Excel).
Automatically harvest data from other locations.
Organize information in indexes and inventories so that you
Data Categories
+ Environmental
Applications Areas
Current Events
NED News
Go to the NED Home Page
Local intranet


Advanced Search - NED Portal - - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://nppc.bpa.gov/Portal/ptk
Go Links
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
About | Feedback | Help
NED Portal
Home
Launch Map Viewer
Advanced Search
Login
Username
Password
Login
Create a new account!
salmon
Search
Exact text search
Any word
All words
Where
Anywhere
Find A Place
Data must fall completely inside area
Launch Map Viewer to Draw Box
Get Box already drawn on Viewer
What
Data Category:
Any
Type/Format:
Any
When (use 'YYYYMMDD' format)
Anytime
Time Period:
From:
To:
Date Posted:
After:
Microsoft PowerPoint - [NEDPortalCouncil2_07.ppt]
Local intranet

Search Results - NED Portal - - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites

Address http://nppc.bpa.gov/Portal/DiscoveryServlet

Go Links

NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK

About | Feedback | Help

NED Portal

- Home
- Launch Map Viewer
- Advanced Search
- Login

Username

Password

Login

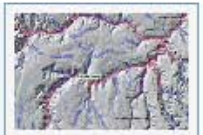
Create a new account!

REFINE SEARCH

Records Found: 4

Search for:
"salmon"
"Any Category - West = -124.1, East = -109.58, North = 50.39, South = 40.41"
retrieved **4** Metadata Result records in **0.078** seconds.

Metadata Results



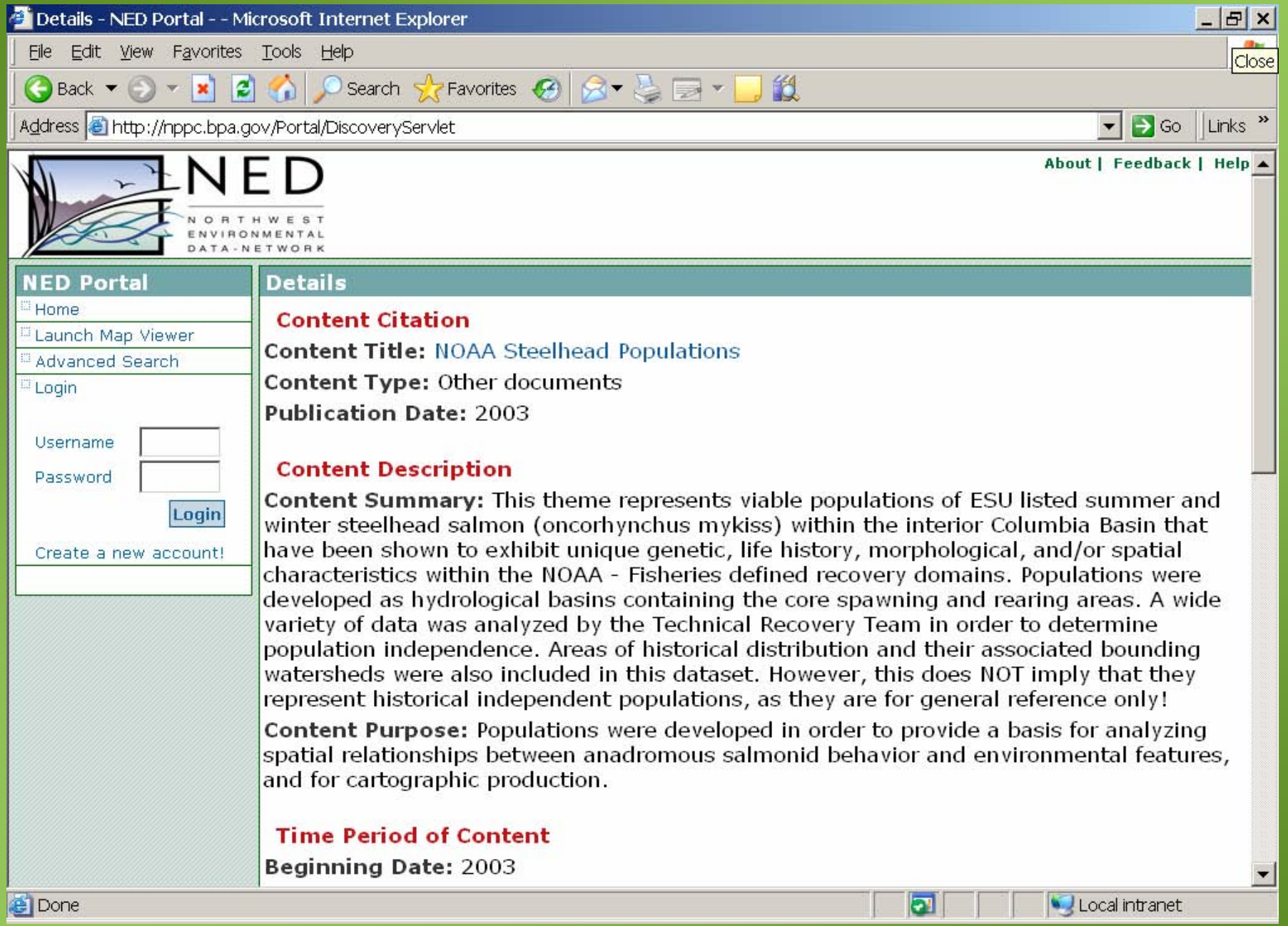
Content Title: Pacific NW Subbasin WMS Service
Publisher: Bonneville Power Administration
Provider Level: 1
Coverage Area: Columbia River Basin, Pacific Northwest, Washington, WA, Oregon, OR, Idaho, ID, Wyoming, WY
Content Type: Live data & maps

View Map | View Details | View Metadata

Content Title: NOAA Steelhead Populations
Publisher: Bonneville Power Administration
Coverage Area: Interior Columbia Basin, Columbia River, Snake River, Salmon River,

Done

Local intranet


Details - NED Portal - - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Close
Back Search Favorites
Address http://nppc.bpa.gov/Portal/DiscoveryServlet
Go Links
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
About | Feedback | Help
NED Portal
Home
Launch Map Viewer
Advanced Search
Login
Username
Password
Login
Create a new account!
Details
Content Citation
Content Title: NOAA Steelhead Populations
Content Type: Other documents
Publication Date: 2003
Content Description
Content Summary: This theme represents viable populations of ESU listed summer and winter steelhead salmon (oncorhynchus mykiss) within the interior Columbia Basin that have been shown to exhibit unique genetic, life history, morphological, and/or spatial characteristics within the NOAA - Fisheries defined recovery domains. Populations were developed as hydrological basins containing the core spawning and rearing areas. A wide variety of data was analyzed by the Technical Recovery Team in order to determine population independence. Areas of historical distribution and their associated bounding watersheds were also included in this dataset. However, this does NOT imply that they represent historical independent populations, as they are for general reference only!
Content Purpose: Populations were developed in order to provide a basis for analyzing spatial relationships between anadromous salmonid behavior and environmental features, and for cartographic production.
Time Period of Content
Beginning Date: 2003
Done
Local intranet

What the Portal is and what it can do

nppc.bpa.gov/Portal

- Bring in data from different web sites
- Overlay that data to make new maps
- See a current inventory of all data
- You can print, save, or email any of the maps you create or data that you find

Features of the NED Portal

- Cost effective -- builds upon and ties together comparable national and state-level efforts
- Meets National and International standards
- Uses off-the-shelf tool -- ESRI's Portal Toolkit -- which runs the nation's Portal at: *www.geodata.gov*
- Focused on Pacific Northwest natural resource issues
- One place to find all the data you are looking for

NORTHWEST
ENVIRONMENTAL
DATA-NETWORK

Portal Demonstration

February 13 2007
Northwest Power and Conservation Council

Tom Pansky, Energy Resource Specialist, BPA

NED Technology for Data Discovery and Sharing Work Group

NED

Background

- Meets regional fish, wildlife, and water data discovery and sharing needs identified by SAIC, NED, and the Columbia Basin Data Center proposal
- There is regional and national support for developing improved data sharing and discovery tools
- Allows for integration of other similar national, regional, state, and local efforts into a federated system

Progress

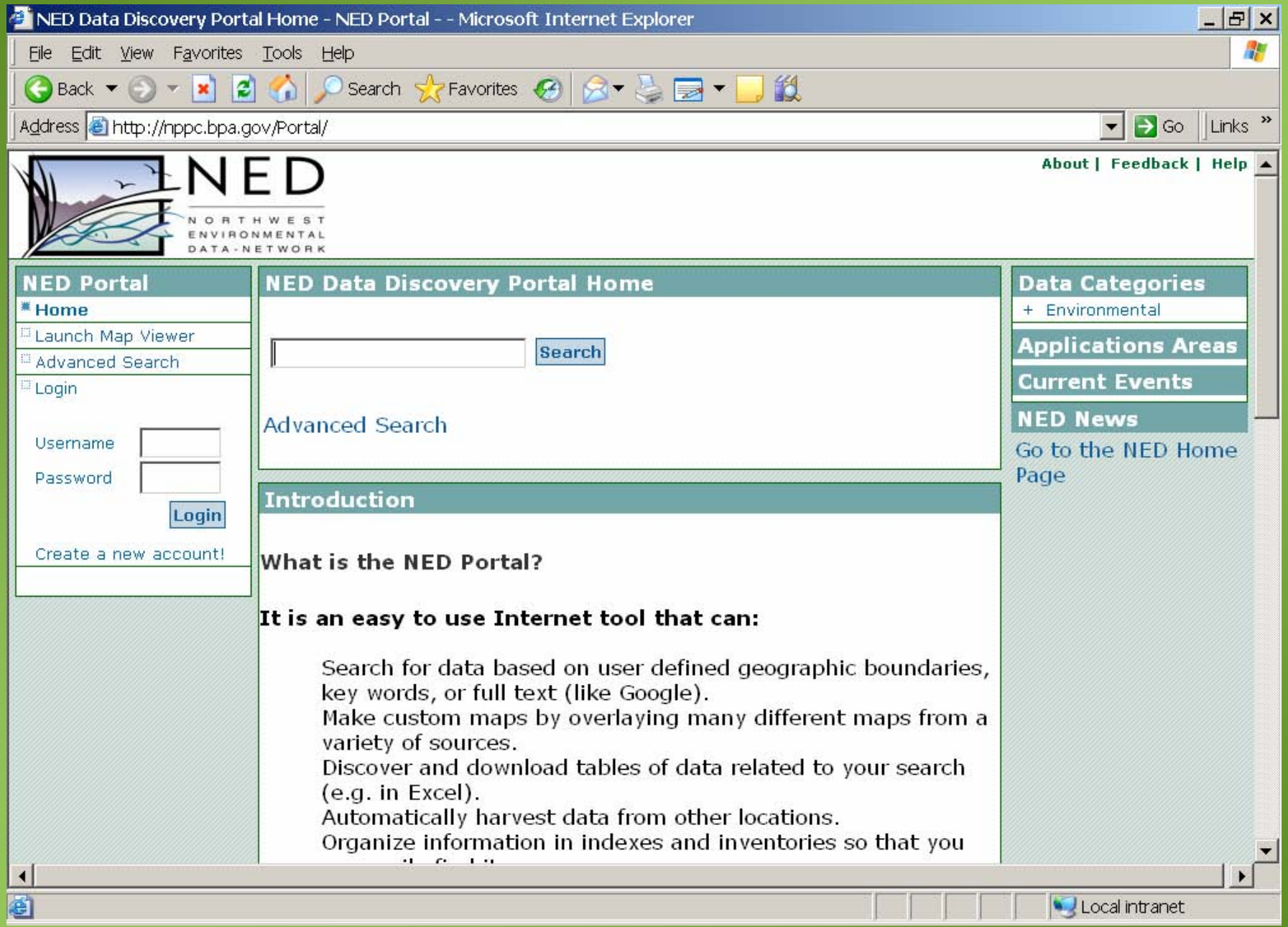
- Fall 2004 – Product research; NED Steering Committee review and software selection
- 2005 – Develop BPA Business Case; secure system development approvals; prep systems for install
- 2006 – Portal Toolkit installed at BPA; configuration and customization; web design; metadata and web map services loaded for pilot portal release

What it will take for the Portal to Succeed

- Metadata and data products developed and posted to (or harvested by) the Portal as a normal part of work
- Development of Operational and Business rules
- A Portal Administrator and Data Steward
- Assistance for those agencies or entities that cannot yet post their own data
- Executive support for the common use of basic standards and protocols for data quality and metadata

Conclusion

- Technology evolution, not revolution
- The Portal allows anyone on the Internet to discover and share data on fish, wildlife, and water
- Opportunity to leverage and integrate with both national and state efforts
- Adaptive management approach to information system development in support of NED goals
- We ask for your suggestions and support


NED Data Discovery Portal Home - NED Portal - - Microsoft Internet Explorer
File Edit View Favorites Tools Help
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NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
About | Feedback | Help
NED Portal
Home
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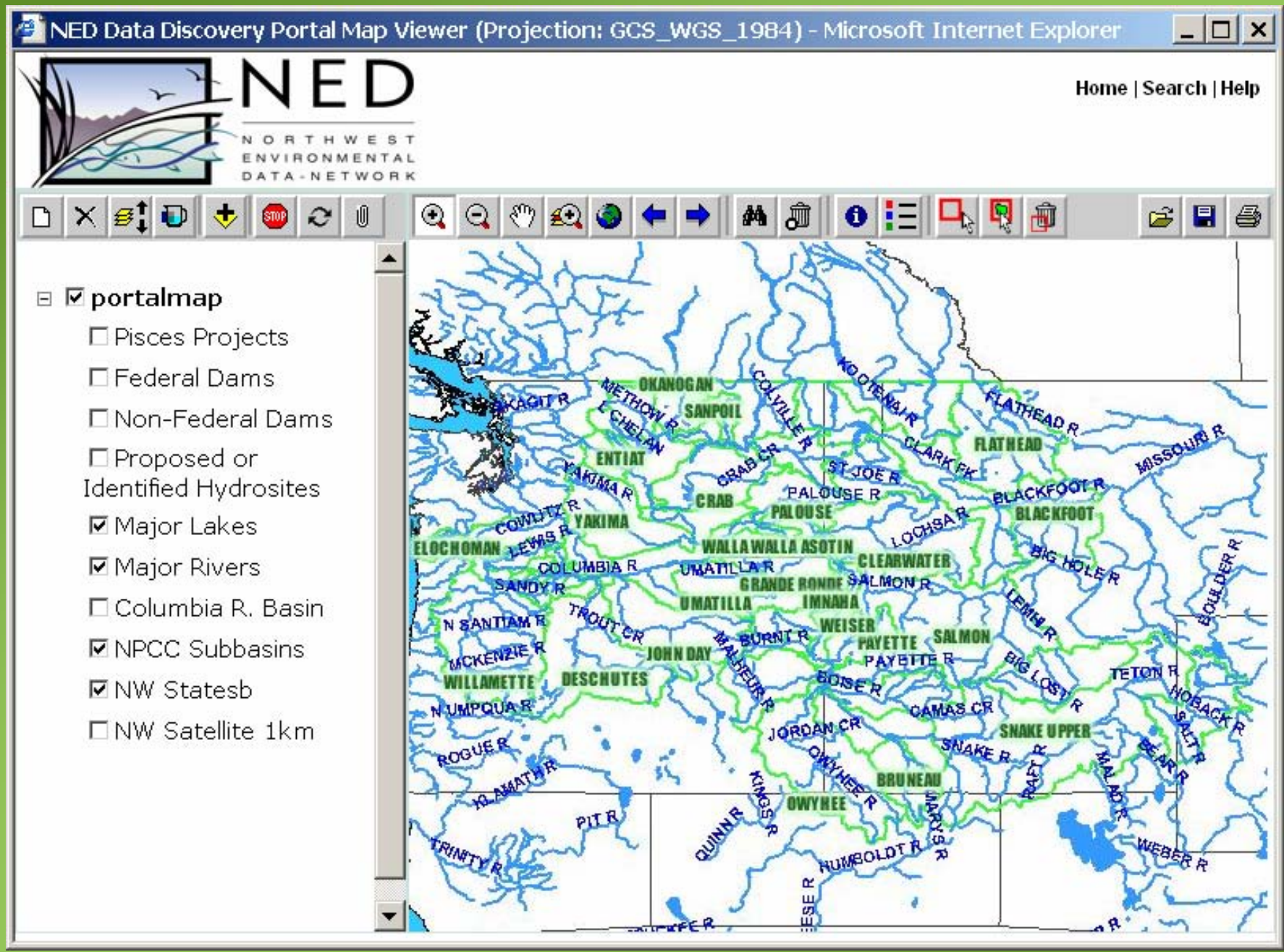
Username
Password
Login
Create a new account!
NED Data Discovery Portal Home
Search
Advanced Search
Introduction
What is the NED Portal?
It is an easy to use Internet tool that can:
Search for data based on user defined geographic boundaries, key words, or full text (like Google).
Make custom maps by overlaying many different maps from a variety of sources.
Discover and download tables of data related to your search (e.g. in Excel).
Automatically harvest data from other locations.
Organize information in indexes and inventories so that you
Data Categories
+ Environmental
Applications Areas
Current Events
NED News
Go to the NED Home Page
Local intranet


NED Data Discovery Portal Map Viewer (Projection: GCS_WGS_1984) - Microsoft Internet Explorer
NED
NORTHWEST ENVIRONMENTAL DATA-NETWORK
Home | Search | Help
portalmap
Pisces Projects
Federal Dams
Non-Federal Dams
Proposed or Identified Hydrosites
Major Lakes
Major Rivers
Columbia R. Basin
NPCC Subbasins
NW Statesb
NW Satellite 1km
OKANOGAN
SANPOIL
ENTIAT
CRAB
PALOUSE
YAKIMA
ELOCHOMAN
WALLA WALLA
ASOTIN
CLEARWATER
UMATILLA
GRANDE RONDE
IMNAHA
WEISER
PAYETTE
SALMON
JOHN DAY
DESCHUTES
WILLAMETTE
BOISE
SNAKE UPPER
BRUNEAU
OWYHEE
FLATHEAD
BLACKFOOT
BIG HOLE R
LEMHI R
BIG LOST R
TETON R
NOBACK R
SALT R
BEAR R
MALAD R
WEBER R
RAFT R
SNAKE R
CAMAS CR
JORDAN CR
OWYHEE R
MARYS R
HUMBOLDT R
KINGS R
QUINN R
PIT R
TRINITY R
KLAMATH R
ROGUE R
N UMPQUA R
MCKENZIE R
N SANTIAM R
SANDY R
COLUMBIA R
LEWIS R
COWLITZ R
YAKIMA R
METHOW R
L CHELAN
CRAB CR
COLVILLE R
ST JOE R
PALOUSE R
KOOTENAI R
CLARK FK
FLATHEAD R
MISSOURI R
BLACKFOOT R
LOCHSA R
BOULDER R
UMATILLA R
SALMON R
TROUT CR
BURNT R
MALHEUR R
PAYETTE R
BOULDER R